SANYO

FILE No.

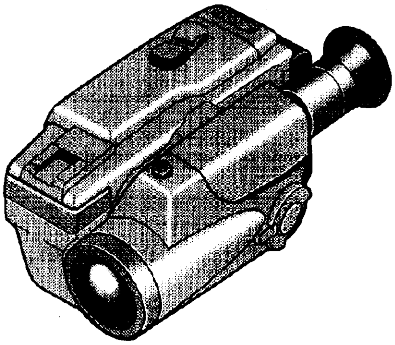
ADJUSTMENT MANUAL

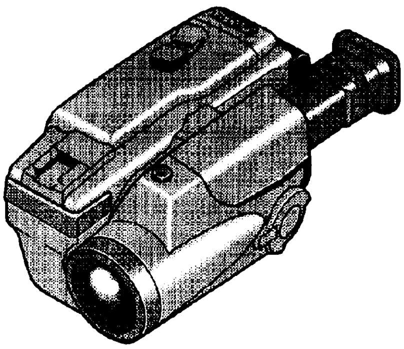
8 mm Camcorder

VM-EX220P
(U.K.)
(EUROPE)
(GENEAL AREA)
(AUSTRALIA)

VM-EX280P
(U.K.)

VM-EX370P
(U.K.)
(EUROPE)





VM-EX220P
Production Code No.
126 050 01 (U.K.)
126 050 04 (EUROPE)
126 050 05 (GENERAL AREA)
126 050 06 (AUSTRALIA)

VM-EX280P
Production Code No.
126 052 00 (U.K.)

VM-EX370P
Production Code No.
126 053 00 (U.K.)
126 053 02 (EUROPE)

8 PAL

Specifications

Television system	PAL, CCIR
Video recording system	Rotating 2-head, helical-scan system
Audio recording system	Rotating head, FM system
Cassette type	8 mm video cassette tape
Tape speed	Approx. 20.051 mm/sec. SP mode
Maximum recording time	90 minutes (P5-90 cassette) SP mode
Fast forward/ Rewind time	Approx. 6.5 minutes (P5-90 cassette)
Image sensor	CCD solid-state type (320,000 pixels)
Viewfinder	0.6 inch black and white electronic viewfinder (220P/280P) 0.7 inch LCD color viewfinder (370P)
Lens	10× power zoom F1.6 (f=4.5 to 45 mm)
Filter diameter	37 mm
Focus	Fuzzy logic auto focus
White balance	Fuzzy logic auto white balance
Iris	Fuzzy logic auto iris
Minimum subject illumination	4 lux (Low Light mode)
Subject illumination range	3 to 100,000 lux
Recommended subject illumination	300 lux or more
Power supply	6 V: battery pack 6.5 V: AC adaptor/charger
Power consumption	5.5 W (220P)/5.7 W (280P)/6.5 W (370P) during camera recording
Operation temperature range	0°C to 40°C (32°F to 104°C)
Storage temperature range	−20°C to 60°C (−4°F to 140°F)
Dimensions (W) × (H) × (D)	Approx. 119 × 111 × 203 (220P/280P)/ 205 (370P) mm
Weight	Approx. 760 g (220P)/ 770 g (280P)/ 790 g (370P) (excluding the battery pack and tape)
Microphone	Electret condenser type
Video output terminal	Video output 1Vp-p, 75 ohms unbalanced, negative sync
Audio output terminal	Audio output −7 dBs, 2.2 kohms or less

- Specifications and external appearance are subject to change without notice.

ER26P/E, EX, GX, A ER261P/EDX ER271P/ E, EX

REFERENCE NO. AM 550030

Please see other materials with the reference numbers given in the table below.

Material	***Model Name***	***Reference No.***
Parts List and Circuit Diagram	VM-EX220P VM-EX280P VM-EX370P	PL 550030
Mechanism		
■ **Mechanism Manual**	RS MECHANISM	MM 550005
■ **Supplement of Mechanism Manual**	RS MECHANISM Revision Ⅲ	MS 550024
AC Adaptor/charger Service Manual	VAR-S12	SM 550024

CONTENTS

1. ABBREVIATIONS 1-1
2. LEADLESS COMPONENT 2-1
  2-1. IDENTIFICATION 2-1
  2-2. REMOVAL 2-3
3. DISASSEMBLY 3-1
  3-1. SCREW/WASHER IDENTIFICATION 3-1
  3-2. REMOVAL OF TOP LID 3-2
  3-3. REMOVAL OF CASSETTE LID AND TERMINAL COVER 3-3
  3-4. REMOVAL OF FRONT CABINET AND CABINET ASSEMBLY (RIGHT) 3-4
  3-5. REMOVAL OF CABINET ASSEMBLY (LEFT) AND VIEWFINDER 3-5
  3-6. REMOVAL OF PW1 BOARD, CAMERA BLOCK ASSEMBLY AND STAND ASSEMBLY 3-6
  3-7. REMOVAL OF CP1 BOARD AND MECHANISM ASSEMBLY 3-7
  3-8. REMOVAL OF CAMERA LENS BLOCK, CP2 BOARD AND MICROPHONE UNIT 3-8
4. BLOCK DIAGRAM 4-1
  4-1. BOARD LOCATION (For VM-EX220P/280P) .. 4-1
  4-2. BOARD LOCATION (For VM-EX370P) 4-2
  4-3. BLOCK DIAGRAM 4-3
5. ELECTRICAL ADJUSTMENT 5-1
1. CAMERA BLOCK ADJUSTMENT 5-1
  1-1. TABLE FOR SERVICING TOOLS 5-1
  1-2. EQUIPMENTS 5-1
  1-3. ADJUSTMENT ITEM AND ORDER 5-1
  1-4. SETUP AND CONNECTION 5-2
  1-5. NOTES 5-3
  1-6. STANDARD SETTING 5-3
  1-7. ADJUSTMENT CONTROLLER 5-3
  1-8. ADJUSTING SPECIFICATION 5-4
2. VTR BLOCK ADJUSTMENT 5-11
  2-1. EQUIPMENTS 5-11
  2-2. ALIGNMENT TAPE 5-11
  2-3. SETUP AND CONNECTION 5-12
  2-4. SETUP FOR ADJUSTMENT 5-13
  2-5. ADJUSTMENT ITEM AND ORDER 5-13
  2-6. SERVO/SYSTEM CONTROL CIRCUIT 5-14
  2-7. VIDEO CIRCUIT 5-14
  2-8. AUDIO CIRCUIT (For VM-EX220P) 5-21
  2-9. AUDIO CIRCUIT (For VM-EX280P/370P) 5-23
  2-10. VIEWFINDER CIRCUIT (For VM-EX220P/280P) 5-26
  2-11. VIEWFINDER CIRCUIT (For VM-EX370P) 5-30
  2-12. POWER CIRCUIT 5-33
6. WAVEFORM 6-1
  6-1. CAMERA CIRCUIT 6-1
  6-2. SERVO/SYSTEM CONTROL CIRCUIT 6-8
  6-3. VIDEO CIRCUIT 6-10
  6-4. AUDIO CIRCUIT (For VM-EX220P) 6-13
  6-5. AUDIO CIRCUIT (For VM-EX280P/370P) 6-13
  6-6. VIEWFINDER CIRCUIT (For VM-EX220P/280P) 6-14
  6-7. VIEWFINDER CIRCUIT (For VM-EX370P) 6-15
7. VOLTAGE CHART 7-1
  7-1. CAMERA CIRCUIT 7-1
  7-2. SERVO/SYSTEM CONTROL CIRCUIT 7-2
  7-3. VIDEO CIRCUIT 7-4
  7-4. POWER CIRCUIT 7-7
  7-5. AUDIO CIRCUIT (For VM-EX220P) 7-8
  7-6. AUDIO CIRCUIT (For VM-EX280P/370P) 7-9
  7-7. VIEWFINDER CIRCUIT (For VM-EX220P/280P) 7-10
  7-8. VIEWFINDER CIRCUIT (For VM-EX370P) 7-11
8. TROUBLESHOOTING GUIDE 8-1
  8-1. CAMERA CIRCUIT 8-1
  8-2. SERVO/SYSTEM CONTROL CIRCUIT 8-3
  8-3. VIDEO CIRCUIT 8-5
  8-4. AUDIO CIRCUIT (For VM-EX220P) 8-7
  8-5. AUDIO CIRCUIT (For VM-EX280P/370P) 8-7
  8-6. VIEWFINDER CIRCUIT (For VM-EX220P/280P) 8-8
  8-7. VIEWFINDER CIRCUIT (For VM-EX370P) 8-8

1. ABBREVIATIONS

[A]	A/D	Analog-To-Digital
	A. MUTE	Audio Mute
	A	Audio
	ACK	Automatic Chrominance Killer
	ADJ	Adjustment
	AE	Automatic Exposure
	AF	Auto-focus
	AFC	Automatic Frequency Control
	AFM	Audio Frequency Modulation
	AGC	Automatic Gain Control
	AMP	Amplifier
	ATF	Automatic Track Finding
	ATT	Attenuator
	AWB	Automatic White Balance
[B]	BLK	Blanking Pulse
	BPF	Band-pass Filter
	BRK	Brake
	BUF	Buffer Amplifier
[C]	C (CHROMA)	Chrominance Signal
	C. BLK	Composite Blanking
	CAP	Capstan
	C. SYNC	Composite Sync Signal
	CAM	Camera
	CAN	Cancel Parts
	CAR	Carrier Signal
	CCD	Charge Coupled Device
	CG	Character Generator
	CL	Checker Land
	CLP	Clamp Pulse
	COM	Common
	COMP	Composite
	CORRE	Correlation
	COUNT.	Counter
	CS	Chip Select
	CST	Cassette
[D]	D/A	Digital-to-Analog
	DAMP	Damping
	DEF	Deflection
	DET	Detector
	DOP	Drop Out Pulse
[E]	EAR	Earphone
	EP	Earphone
	E^2PROM	Electorical Erasable And Programmable Read Only Memory
[F]	FWD	Forward
	FE	Flying Erase
	FEP	Flying Erase Pulse
	FF	Fast Forward
	FG	Frequency Generator
	FH	Frequency Horizontal
	FREQ	Frequency
	FSC	Frequency Sub Carrier
[G]	GND	Ground
[H]	H (HORIZ)	Horizontal
	HD	Horizontal Drive
	HHK	Half Horizontal Killer
	HHS	Half Horizontal Shift
	HPF	High-pass Filter
[I]	I/O	In/Out
	I	Current
	ID	Identity
	INS	Insert
	INV	Inverter
	IR	Infrared Rays
	IRIS DET	Iris Detection Signal
[J]	JOG	Jogging
[L]	LI	Lithium Battery
	LIM	Limiter
	LP	Long Play
	LPF	Low-pass Filter
[M]	ME	Metal Evaporated
	MECHA	Mechanism
	MF	Manual Focus
	MIC	Microphone
	MOA	Main Operation Amplifier
	MONI	Monitor
	MP	Metal Particle
[N]	NC	Noise Canceler
	NT	NTSC System
[O]	OSC	Oscillator
	OSD	On-screen Display
[P]	PB	Playback
	PG	Pulse Generator
	PG DOUB	Pulse Gate Doubler
	PI	Phase Invert
	PLL	Phase Locked Loop
	PS	Phase Shift
	PWM	Pulse Width Modulation
[R]	REC	Record
	REG	Regulator
	REV	Reverse
	REW	Rewind
[S]	S/S	Servo/System Control or Start/Stop
	S REEL	Supply Reel
	SCK	Serial Clock
	SI	Serial In
	SO	Serial Out
	SP	Standard Play
	STB	Strobe
	STBY	Stand By
	SW	Switch
[T]	T (TELE)	Telephoto
	T REEL	Take-up Reel
	TC	Time Constant
	TP	Test Point
[V]	V. CENTER	Video Center
	V. MUTE	Video Mute
	V (VERT)	Vertical
	V	Video
	VA	Video Audio
	VBLK	Video Blank
	VC	Video Character
	VCA	Voltage Controlled Amplifier
	VCXO	Voltage Controlled Crystal Oscillator
	VD	Vertical Drive
	VF	Viewfinder
	VR	Variable Resistor
	V_{ss}	Voltage Super Source
[W]	WE	Weighting
	WIDE	Wide Angle
[X]	XO	Crystal Oscillator
	γ	Gamma

2. LEADLESS COMPONENT

2-1. IDENTIFICATION

Leadless Transistors

The identification numbers for leadless transistors are indicated by a code on the surface.

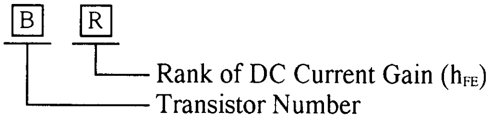
Code	Transistor Number	Code	Transistor Number	Code	Transistor Number
[Transistor]					
BD	2SB1121-T-P	T1	IMT1-T110	ES6	2SA1745-6-TL
BR	2SB1218A-R-TX	X1	IMX1-T109	ES7	2SA1745-7-TL
BR	2SC4081-R-T106	ZR	2SD1819A-R-TX	101	FC101-TL
BJ	2SB1302-S-TD	5C	XP4601-TX	101	FP101-TL
B7	2SB815-B7-TB	5H	XP4501-TW	102	FC102-TL
FL	2SA1434-TB	5H	XP4501-TX	104	FC104-TL
F5	2SC4399-5-TL	5K	XP4401-TW	106	FP106-TL
L6	2SC4211-6-TL	5K	XP44C1-TX	B1202	2SB1202-S-TL
M6	2SA1622-6-TL	5L	XN55C1-TW	IMT1	IMT1-T110
S1	FMS1-T99				
[Digital Transistor]					
A5	FMA5-T99	Z1	IMZ1-109	15	DTA124EU-T106
BL	2SA1676-TL	6B	UN5112-TX	16	DTA144EU-T106
BY	2SC4396-TL	6C	UN5113-TX	25	DTC124EU-T106
CL	2SA1677-TL	7L	XN1113-TW	26	DTC144EU-T106
CY	2SC4397-TL	8B	UN5212-TX	29	DTC115EU-T106
EY	2SC4398-TL	8C	UN5213-TX	86	DTC144WU-T106
G2	FMG2-T99	9L	XN1213-TW	108	FC108-TL
G8	FMG8-T99	9T	XN1211-TW	116	FC116-TL
G9	FMG9-T99	14	DTC114EU-T106		

Note: The codes of digital transistors show only the transistor numbers.

Identification With Two Letters

Letter	Transistor Number
B	2SB1218A

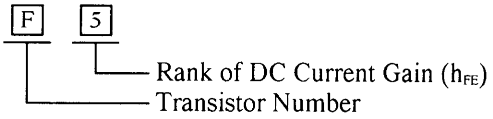
Example Code : BR Number : 2SB1218A-R


B
R
Rank of DC Current Gain (hFE)
Transistor Number

Identification With One Letter and One Numeral

Letter	Transistor Number
F	2SC4399

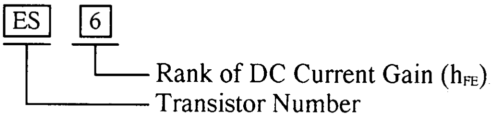
Example Code : F5 Number : 2SC4399-5


F
5
Rank of DC Current Gain (hFE)
Transistor Number

Identification With Two Letters and One Numeral

Letter	Transistor Number
ES	2SA1745

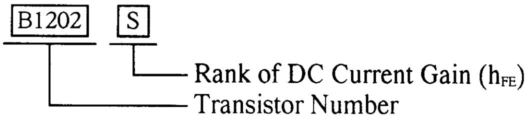
Example Code : ES Number : 2SA1745-6


ES
6
Rank of DC Current Gain (hFE)
Transistor Number

Identification With One Letter and Four Numerals

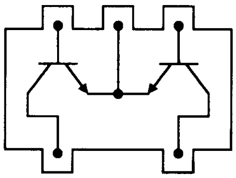
Letter	Transistor Number
B1202	2SB1202

Example Code : B1202 Number : 2SB1202-S

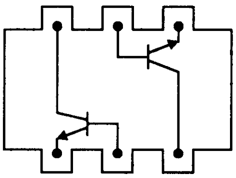

B1202
S
Rank of DC Current Gain (hFE)
Transistor Number

Leadless Transistors Internal Connection Circuit

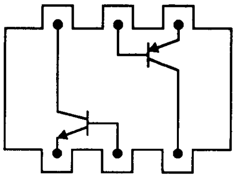
Code : 104



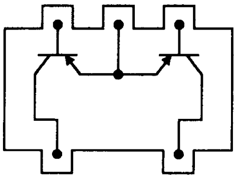
Code : 5H



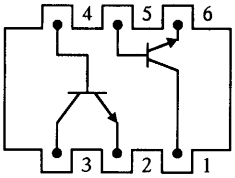
Code : 5C



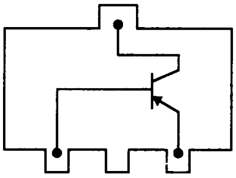
Code : S1



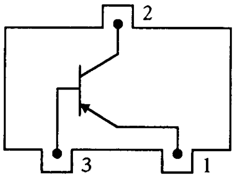
Code : 5L



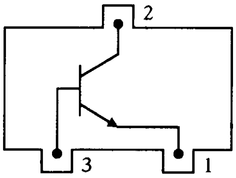
Code : B1202



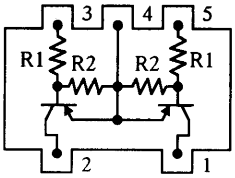
Code : M6, ES6, ES7, B7, BR (2SB1218A), BL, FL



Code : L6, ZR, BR (2SC4081)

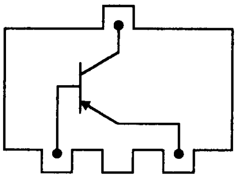


Code : 7L

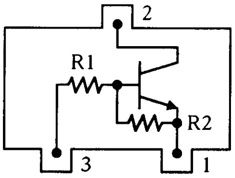

3
4
5
R1
R2
R2
R1
2
1

R1=47k
R2=47k

Code : BJ

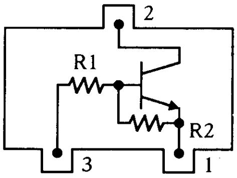


Code : BY, 26, 8C



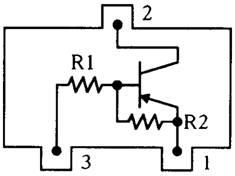
R1=47k
R2=47k

Code : 86



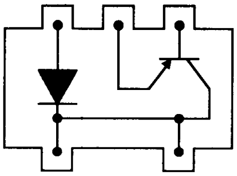
R1=47k
R2=22k

Code : BL, 16

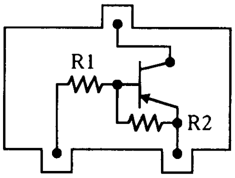


R1=47k
R2=47k

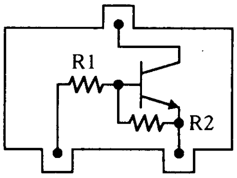
Code : 101 (FP101-TL), 106



Code : CL, 6B, 15

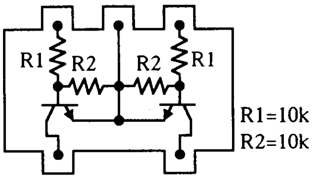


Code : EY, 14

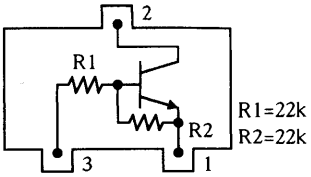


R1=10k
R2=10k

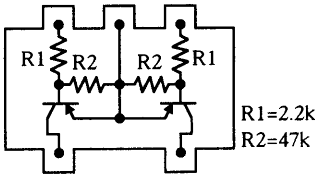
Code : G9, 9T,116


R1
R2
R2
R1
R1=10k
R2=10k

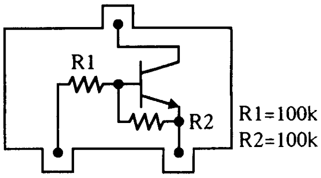
Code : CY, 8B, 25


2
R1
R2
3
1
R1=22k
R2=22k

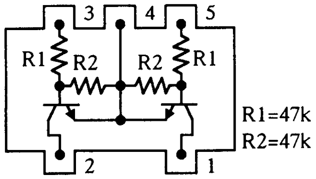
Code : A5


R1
R2
R2
R1
R1=2.2k
R2=47k

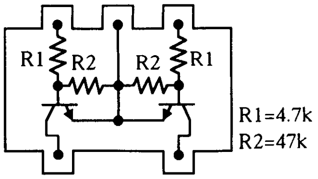
Code : 29


R1
R2
R1=100k
R2=100k

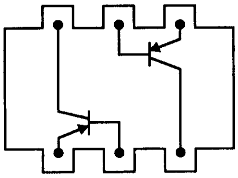
Code : G2, 9L, 108


3
4
5
R1
R2
R2
R1
2
1
R1=47k
R2=47k

Code : G8


R1
R2
R2
R1
R1=4.7k
R2=47k

Code : 101 (FC101-TL), IMT1, 5K

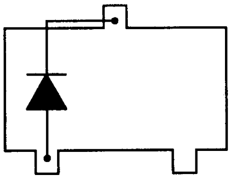


Leadless Diodes

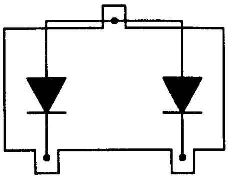
The identification numbers for leadless diodes are indicated by a code on the surface. M1M, M3H: Schottky Barrier Diode

Code	Diode Number	Code	Diode Number	Code	Diode Number
B	SB05-05-CP-TB	MH	MA141K-TX	W6	DCG010-TL
N	DAN202U-T106	MN	MA141WA-TX	432	RD4.3M-T1BB2
A2	DSH015-TL	MT	MA141WK-TX	472	RD4.7M-T1BB2
A2	DCB015-TL	NP	MA143A-TX	822	RD8.2M-T1BB2
A4	DCF015-TL	M1M	MA721-TX	8.2A	MA3082WA-TX
A6	DCG015-TL	M3H	MA721WA-TX	8.2M	MA3082-M-TW
C3	1SS302-TE85L	S	SB10-015C-TL		
J	DSB07-03C-TL	W5	DCF010-TL		

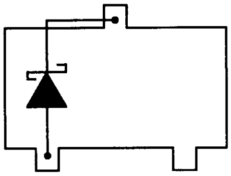
Code : B, J, S



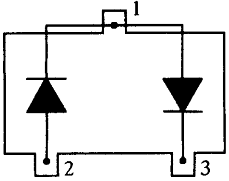
Code : A4, W5



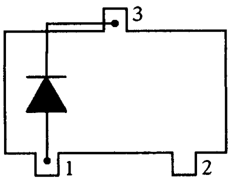
Code : M1M, 432, 472



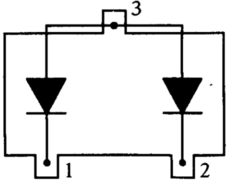
Code : C3



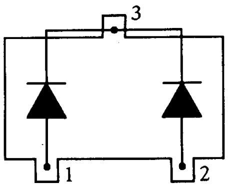
Code : MH



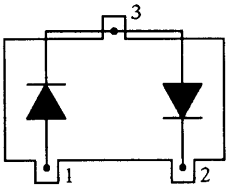
Code : MN



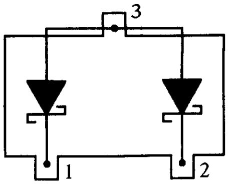
Code : MT



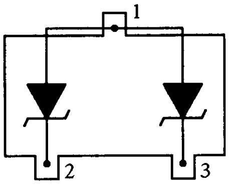
Code : NP



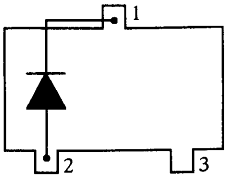
Code : M3H



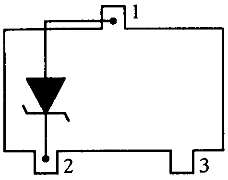
Code : 8.2A



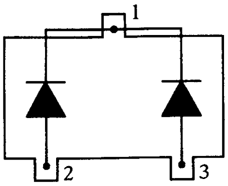
Code : A2 (DSH015-TL)



Code : 822, 8.2M



Code : N, A6, W6
A2 (DCB015-TL)

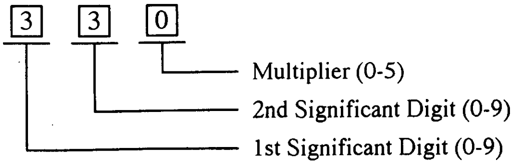


Leadless Resistors

The resistor value is indicated on the surface of the component, using a three-digit number.

Example :

Code	Value
1R2	1 + 0.2= 1.2 ohms (R : Decimal point)
330	33 × 10^0= 33 ohms
561	56 × 10^1= 560 ohms
123	12 × 10^3= 12 kohms

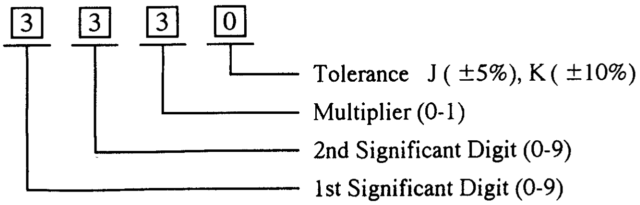

3
3
0
Multiplier (0-5)
2nd Significant Digit (0-9)
1st Significant Digit (0-9)

Leadless Coils

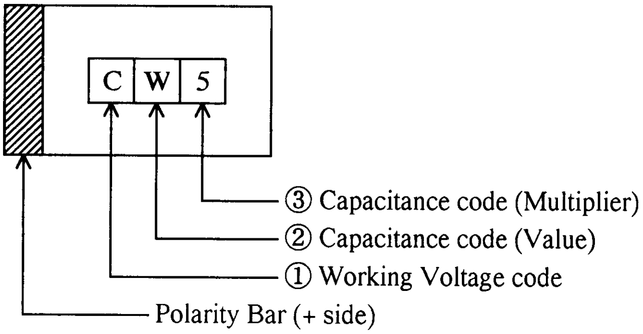
The coil value is indicated on the surface of the component, using three numerals and one letter.

Example :

Code	Value	
2R2J	2.2	μH
220J	22	μH
221J	220	μH


3
3
3
0
Tolerance J (±5%), K (±10%)
Multiplier (0-1)
2nd Significant Digit (0-9)
1st Significant Digit (0-9)

Leadless Tantalum (1)


C
W
5
③ Capacitance code (Multiplier)
② Capacitance code (Value)
① Working Voltage code
Polarity Bar (+ side)

① W.V. code

Code	G	J	A	C	D	E	V
Working Voltage (V)	4	6.3	10	16	20	25	35

② Capacitance code (Value)

Code	A	E	J	N	S	W
Value	1	1.5	2.2	3.3	4.7	6.8

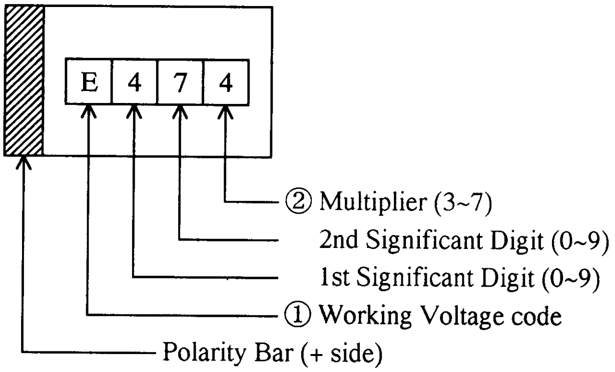
③ Capacitance code (Multiplier)

Code	5	6	7
Multiplier	10^5	10^6	10^7

Example:

Code	Value	
CW5	0.68 μF	16V
AJ6	2.2 μF	10V

Leadless Tantalum (2)


E
4
7
4
② Multiplier (3~7)
2nd Significant Digit (0~9)
1st Significant Digit (0~9)
① Working Voltage code
Polarity Bar (+ side)

① W.V. code

Code	G	J	A	C	D	E	V
Working Voltage (V)	4	6.3	10	16	20	25	35

② Capacitance code (Multiplier)

Code	3	4	5	6	7
Multiplier	10^3	10^4	10^5	10^6	10^7

Example:

Code	Value	
E474	0.47 μF	25V
C105	1.0 μF	16V
J335	3.3 μF	6.3V

2-2. REMOVAL

Replacement procedure for Leadless (Chip) Components

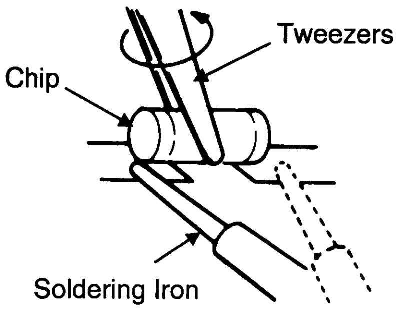
The following procedures are recommended for the replacement of the leadless components used in this unit.

1. Preparation for replacement
   - a. Soldering Iron
     Use a pencil-type soldering iron using less than 30 w.
   - b. Solder
     Eutectic Solder (Tin 63%, Lead 37%) is recommended.
   - c. Soldering time
     Do not apply heat for more than 4 seconds.
   - d. Preheating
     Leadless capacitor must be preheated before installation. (130℃~150℃, for about two minutes.)

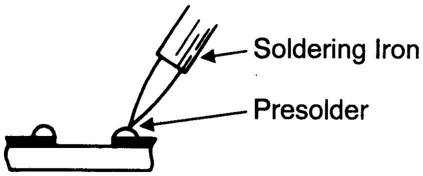
Note: a. Leadless components must not be reused after removal.
b. Excessive mechanical stress and rubbing of the component electrode must be avoided.

2. Removing leadless components
   Grasp the leadless component body with tweezers and alternately apply heat to both electrodes. When the solder on both electrodes is melted, remove the leadless component with a twisting motion.

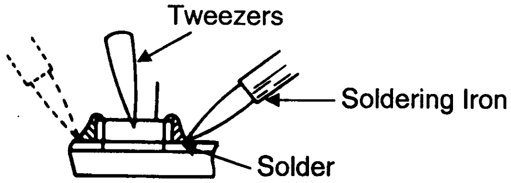
Note: a. Do not attempt to lift the component off the board until the component is completely disconnected from the board by a twisting action.
b.Take care not to break the copper foil on the printed board.


Tweezers
Chip
Soldering Iron

3. Installing leadless components
   - a. Presolder the contact points of the circuit board.


Soldering Iron
Presolder

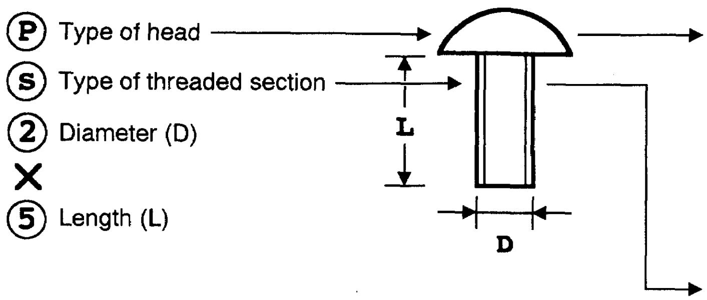
   - b. Press the part downward with tweezers and solder both electrodes as shown below.


Tweezers
Soldering Iron
Solder

Note: Do not glue the replacement leadless component to the circuit board.

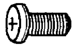
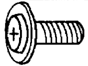
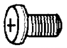
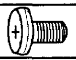
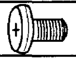
3. DISASSEMBLY

3-1. SCREW/WASHER IDENTIFICATION

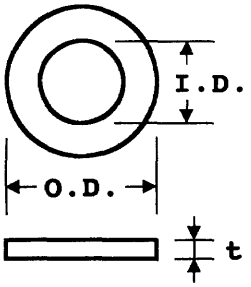


Abbreviation	Name	Shape
No symbol	Special type	
P	Pan head	
B	Binding head	

Abbreviation	Name	Shape
No symbol	Machine screw	
s	Forming tight (for metal)	
p	Forming tight (for plastic)	
b	Forming tight (for metal/plastic)	

Symbol No.	Configuration (Color)	Dimension (mm)
99	(BLACK)	Pp 2 × 5
100	(SILVER)	Ps 1.7 × 4
101	 (BLACK)	Ps 1.7 × 4
102	(BLUE)	Pb 1.7 × 4
103	(BLACK)	Pp 1.7 × 6
104	(BLACK)	Ps 1.7 × 6
105	(BLACK)	Pp 1.7 × 8
106	(BLACK)	Ps 2 × 6
107		p 2 × 5
108		Bp 2 × 12
109		P 2 × 4
110	(SILVER)	Pp 1.7 × 4
111	(BLACK)	P 1.4 × 2.5
112	 (BLACK)	P 1.4 × 3
113	(YELLOW)	P 2 × 5
114	(YELLOW)	Ps 1.4 × 1.6
115	(YELLOW)	Ps 1.4 × 2.2
116	(YELLOW)	Ps 1.4 × 3.3
117	(BLACK)	Pp 1.4 × 2
118	(SILVER)	Pp 1.4 × 3.5
119	 (BLACK)	1.4 × 2.5
120	 (YELLOW)	1.4 × 3
121	(YELLOW)	p 1.4 × 3.5
122	(YELLOW)	Ps 2.6 × 3
123	(YELLOW)	Ps 3 × 5
124	(BLACK)	Pb 2.6 × 10

【Washer Classification】



Symbol No.	Configuration	Dimension (mm)
131		O.D.: 3.0 I.D.: 1.2 t: 0.3
132		O.D.: 2.7 I.D.: 1.0 t: 0.25
133		O.D.: 3.2 I.D.: 1.45 t: 0.3
134		O.D.: 3.0 I.D.: 1.2 t: 0.13
135		O.D.: 3.0 I.D.: 0.9 t: 0.3
136		O.D.: 7.0 I.D.: 2.6 t: 0.13

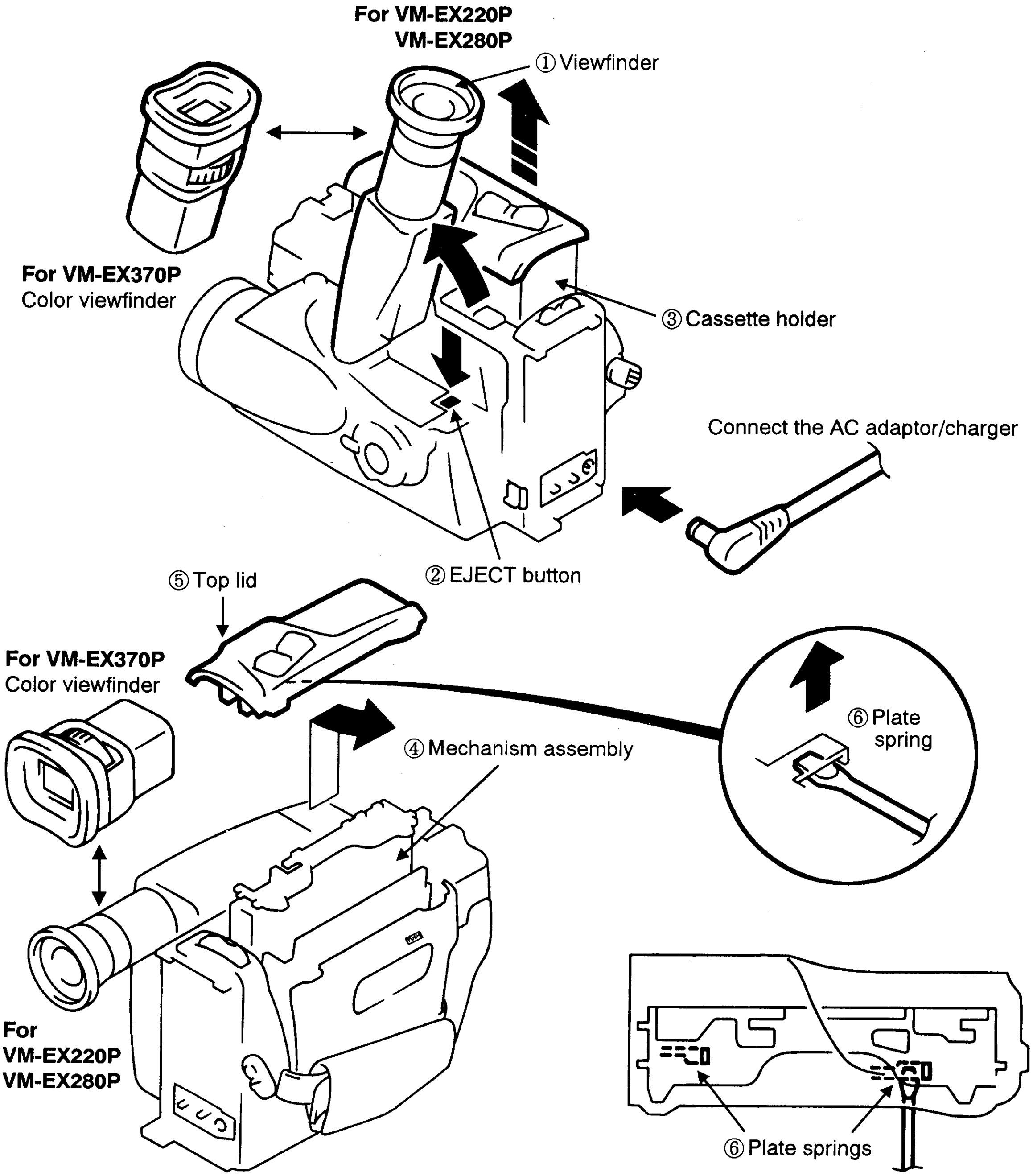
Note:

Symbol No. 99 ~ 107, 136: For cabinet
Symbol No. 108 ~ 110: For camera block
Symbol No. 111 ~ 121, 131~135: For mechanism
Symbol No. 122 ~ 124: For AC adaptor/charger

3-2. REMOVAL OF TOP LID

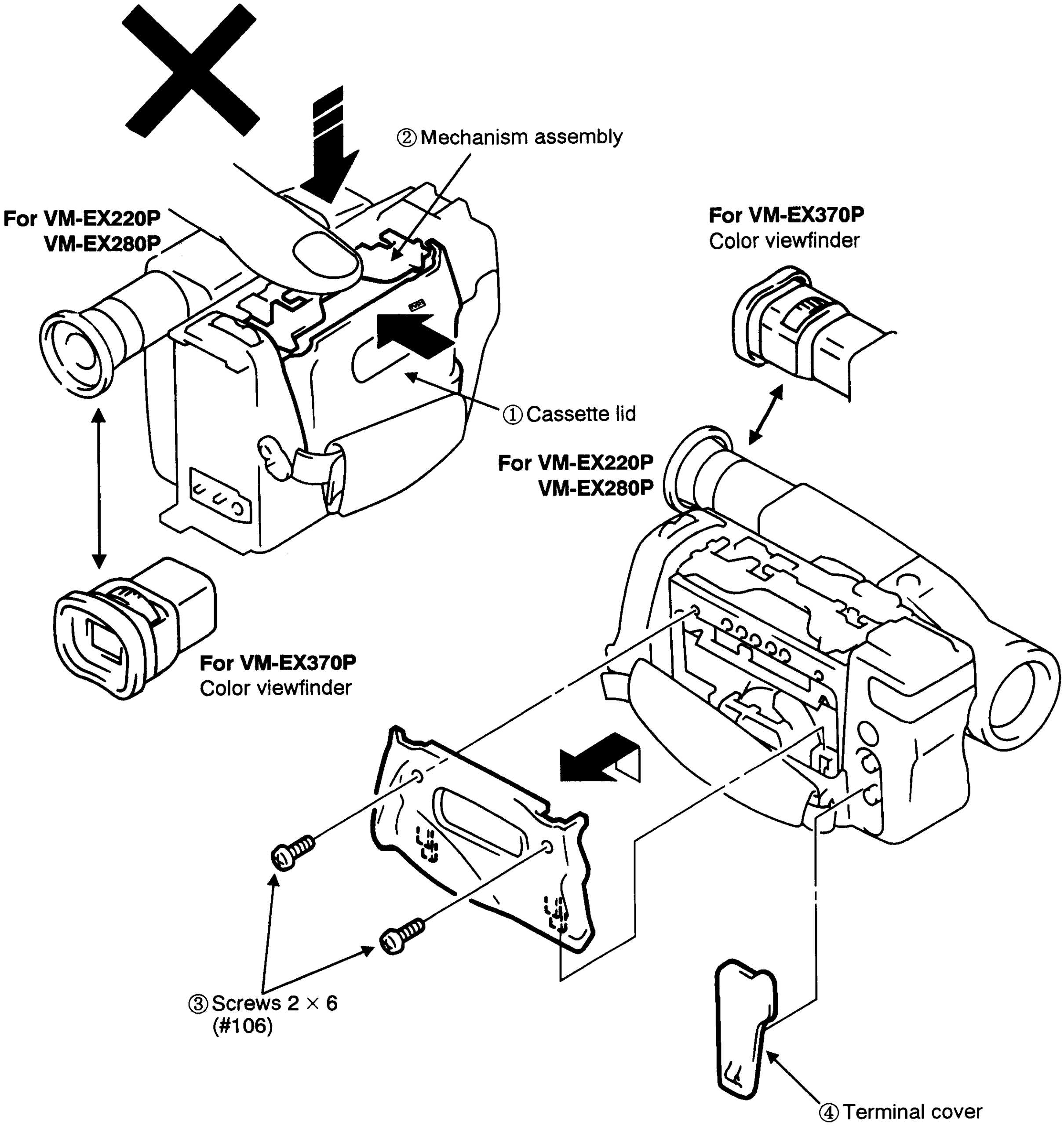
1. Lift up the viewfinder ① , and then press the EJECT button ② to open the cassette holder ③.
2. Insert a flat-tipped screwdriver between the mechanism assembly ④ and the top lid ⑤ , and then while pushing both the left and right plate springs ⑥ upward, pull the top lid ⑤ toward you to remove it.

- To install the top lid ⑤ , place it on top of the mechanism assembly ④ , and then slide it away from you while pressing it down until it clicks into place.
- If the power supply is interrupted because of a blown fuse, the cassette holder will not open. In this case, first remove the cassette lid, and then remove the top lid ⑤ .


For VM-EX220P
VM-EX280P
① Viewfinder
For VM-EX370P
Color viewfinder
③ Cassette holder
Connect the AC adaptor/charger
⑤ Top lid
② EJECT button
For VM-EX370P
Color viewfinder
⑥ Plate spring
④ Mechanism assembly
For
VM-EX220P
VM-EX280P
⑥ Plate springs

3-3. REMOVAL OF CASSETTE LID AND TERMINAL COVER

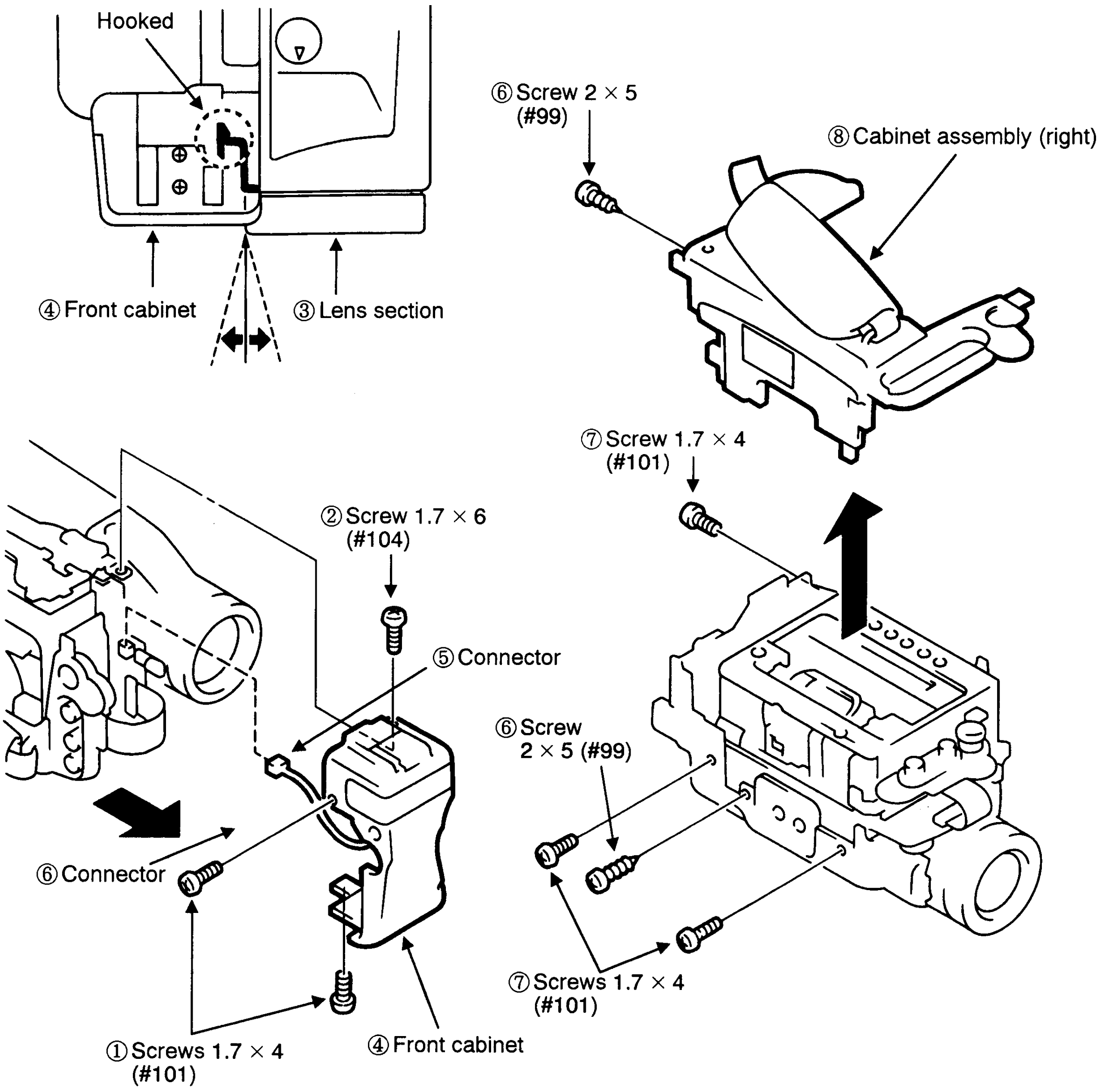
1. Press the cassette lid ① to close the cassette holder, and then lower the mechanism assembly ②.
- Because the upper section of the mechanism is extremely delicate, do not apply excessive force at this time.
2. Remove the two screws ③, and then remove the cassette lid ①.
3. Remove the terminal cover ④.



② Mechanism assembly
For VM-EX220P
VM-EX280P
For VM-EX370P
Color viewfinder
① Cassette lid
For VM-EX220P
VM-EX280P
For VM-EX370P
Color viewfinder
③ Screws 2 × 6
(#106)
④ Terminal cover

3-4. REMOVAL OF FRONT CABINET AND CABINET ASSEMBLY (RIGHT)

1. Remove the three screws ① and ②.
2. Grasp the lens section ③ with one hand and the front cabinet ④ with the other hand, and then pull them apart to disengage the hook. Then remove the front cabinet ④ from the front of the camcorder.
   - The connector ⑤ (for the microphone) should be disconnected at this time also.
3. Remove the five screws ⑥ and ⑦, and then remove the cabinet assembly (right) ⑧.


Hooked
④ Front cabinet
③ Lens section
⑥ Screw 2 × 5 (#99)
⑧ Cabinet assembly (right)
⑦ Screw 1.7 × 4 (#101)
② Screw 1.7 × 6 (#104)
⑤ Connector
⑥ Screw 2 × 5 (#99)
⑥ Connector
⑦ Screws 1.7 × 4 (#101)
① Screws 1.7 × 4 (#101)
④ Front cabinet

3-5. REMOVAL OF CABINET ASSEMBLY (LEFT) AND VIEWFINDER

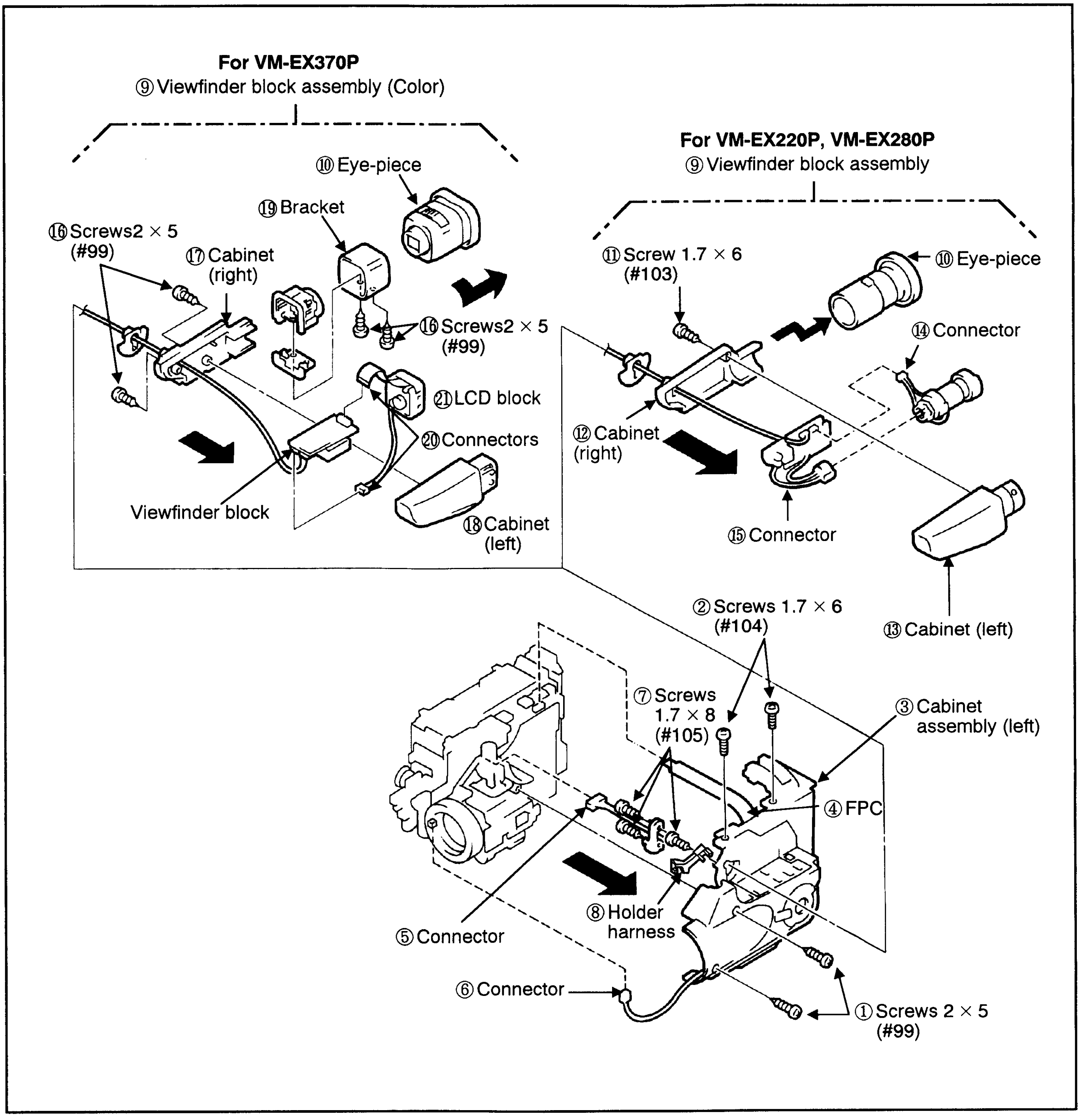
1. Remove the four screws ① and ②, and then remove the cabinet assembly (left) ③.
- The FPC (Flexible Printed Circuit) ④ and the two connectors ⑤ (for the viewfinder) and ⑥ (for the lithium battery) should be disconnected at this time also.
2. Remove the three screws ⑦ and holder harness ⑧, and then remove the viewfinder block assembly ⑨ from the cabinet assembly (left) ③.
3. Pull out the eye-piece ⑩ fully, and then push it back slightly. Turn it toward the left (in the direction of the arrow), and then remove it.

[For VM-EX220P, VM-EX280P]

4. Remove the screw ⑪, and then remove the cabinets (right) ⑫ and (left) ⑬ of the viewfinder. The viewfinder cabinet is held together by hooks, so you will need to pull it firmly to separate it.
5. Disconnect the two connectors ⑭ and ⑮ to separate the viewfinder board section.

[For VM-EX370P]

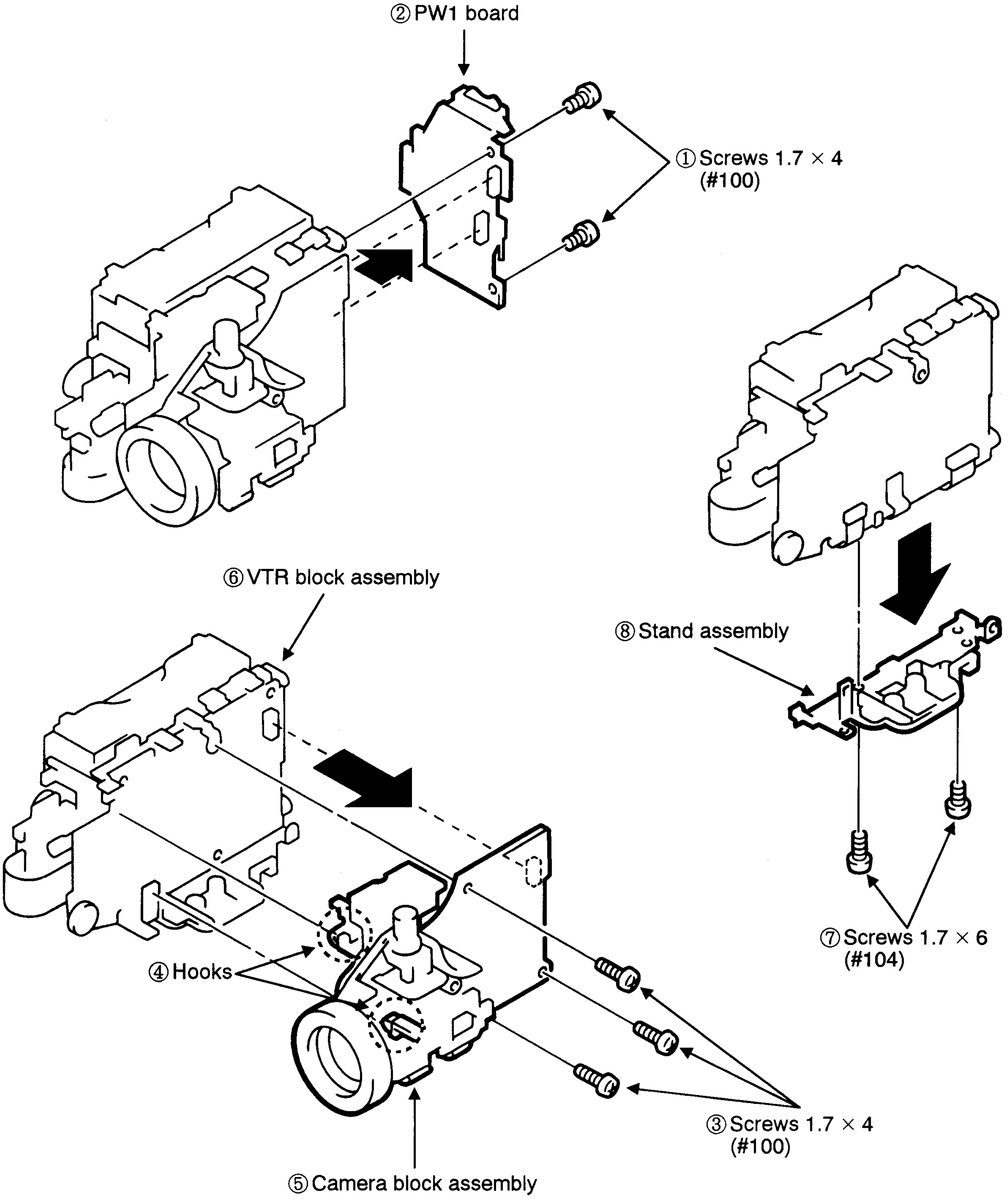
4. Remove the four screws ⑯, and then remove the cabinets (right) ⑰, (left) ⑱ and the bracket ⑲ of the viewfinder. The viewfinder cabinet is held together by hooks, so you will need to pull it firmly to separate it.
5. Disconnect the two connectors ⑳ to separate the viewfinder board section and the LCD block ㉑.


For VM-EX370P
⑨ Viewfinder block assembly (Color)
⑩ Eye-piece
⑲ Bracket
⑯ Screws2 × 5
(#99)
⑰ Cabinet
(right)
⑯ Screws2 × 5
(#99)
㉑ LCD block
⑳ Connectors
Viewfinder block
⑱ Cabinet
(left)
For VM-EX220P, VM-EX280P
⑨ Viewfinder block assembly
⑪ Screw 1.7 × 6
(#103)
⑩ Eye-piece
⑭ Connector
⑫ Cabinet
(right)
⑮ Connector
⑬ Cabinet (left)
② Screws 1.7 × 6
(#104)
⑦ Screws
1.7 × 8
(#105)
③ Cabinet
assembly (left)
④ FPC
⑧ Holder
harness
⑤ Connector
⑥ Connector
① Screws 2 × 5
(#99)

3-6. REMOVAL OF PW1 BOARD, CAMERA BLOCK ASSEMBLY AND STAND ASSEMBLY

1. Disconnect the two screws ①, and then remove the PW1 board ②.
2. Remove the three screws ③, and then while pushing the hooks ④, remove the camera block assembly ⑤ from the VTR block assembly ⑥.
3. Remove the two screws ⑦, and then remove the stand assembly ⑧.

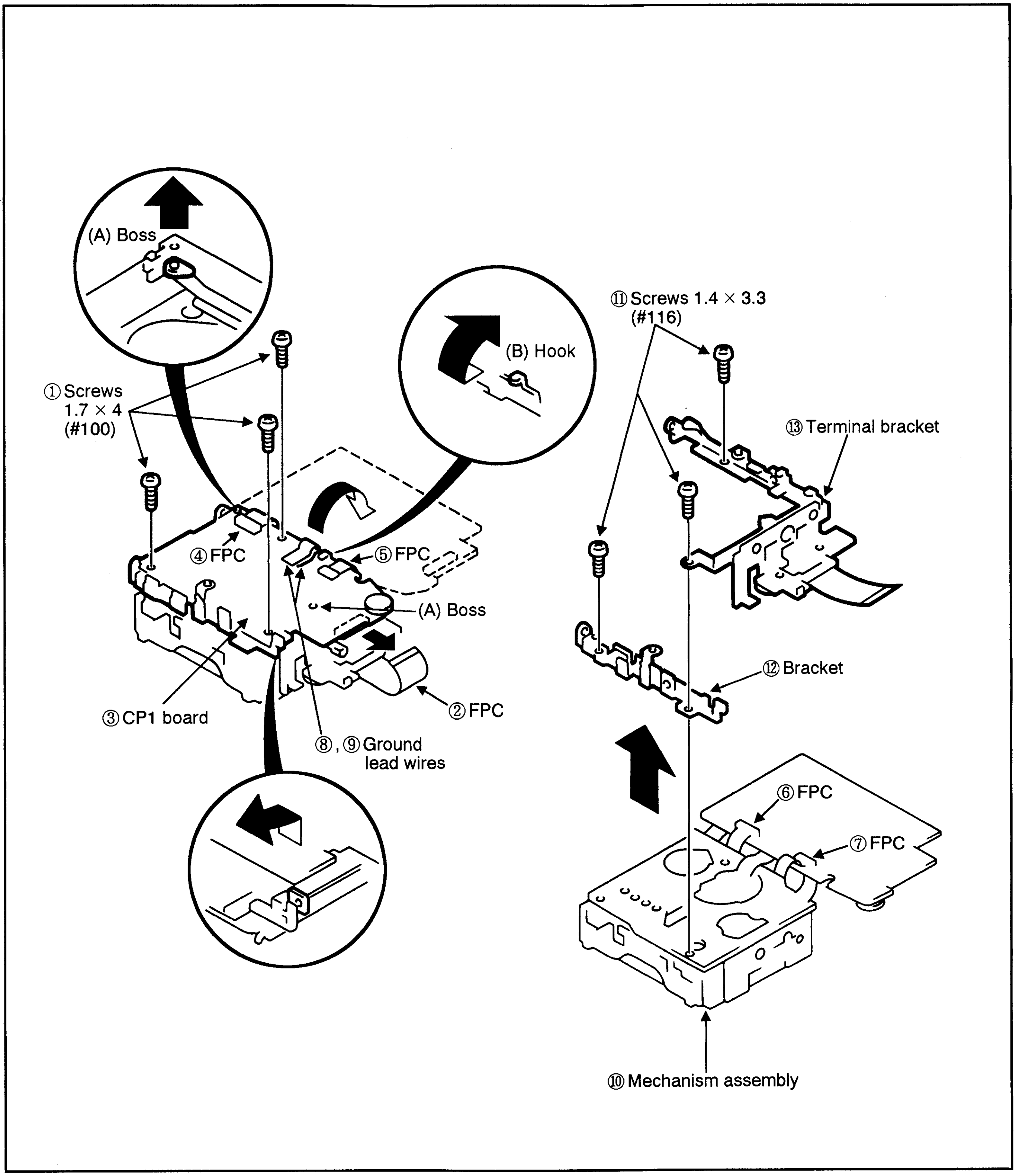
- When carrying out the steps in "**5. ELECTRICAL ADJUSTMENT**," remove the camera block assembly ⑤ but not the PW1 board ②.



② PW1 board
① Screws 1.7 × 4 (#100)
⑥ VTR block assembly
⑧ Stand assembly
④ Hooks
⑦ Screws 1.7 × 6 (#104)
③ Screws 1.7 × 4 (#100)
⑤ Camera block assembly

3-7. REMOVAL OF CP1 BOARD AND MECHANISM ASSEMBLY

1. Remove the three screws ①, and then remove the FPC (Flexible Printed Circuit) ②.
2. The CP1 board ③ is secured to the mechanism assembly ⑩ by means of positioning bosses (A) and a hook (B). Therefore, slightly raise the CP1 board ③ and slide it to disengage it from the bosses (A) and the hook (B). In this condition, the CP1 board ③ can be turned 180°.
3. Disconnect the four FPCs ④, ⑤, ⑥ and ⑦, disconnect the two ground lead wires ⑧ and ⑨ which are soldered to the shield case of the CP1 board ③, and then remove the CP1 board ③ from the mechanism assembly ⑩.
4. Remove the three screws ⑪, and then remove the bracket ⑫, terminal bracket ⑬ and mechanism assembly ⑩.


(A) Boss
(B) Hook
① Screws
1.7 × 4
(#100)
④ FPC
⑤ FPC
(A) Boss
② FPC
③ CP1 board
⑧, ⑨ Ground
lead wires
⑪ Screws 1.4 × 3.3
(#116)
⑬ Terminal bracket
⑫ Bracket
⑥ FPC
⑦ FPC
⑩ Mechanism assembly

3-8. REMOVAL OF CAMERA LENS BLOCK, CP2 BOARD AND MICROPHONE UNIT

1. Remove the FPC ①, and then while pushing the hooks (A), remove the CP2 board ②.
2. Remove the three screws ③, and then remove the lens holder ④ and front cover assembly ⑤ from the camera lens block ⑥.
3. Remove the two screws ⑦, and then remove the cover shoe ⑧ and the accessory shoe ⑨ from the front cabinet ⑩.

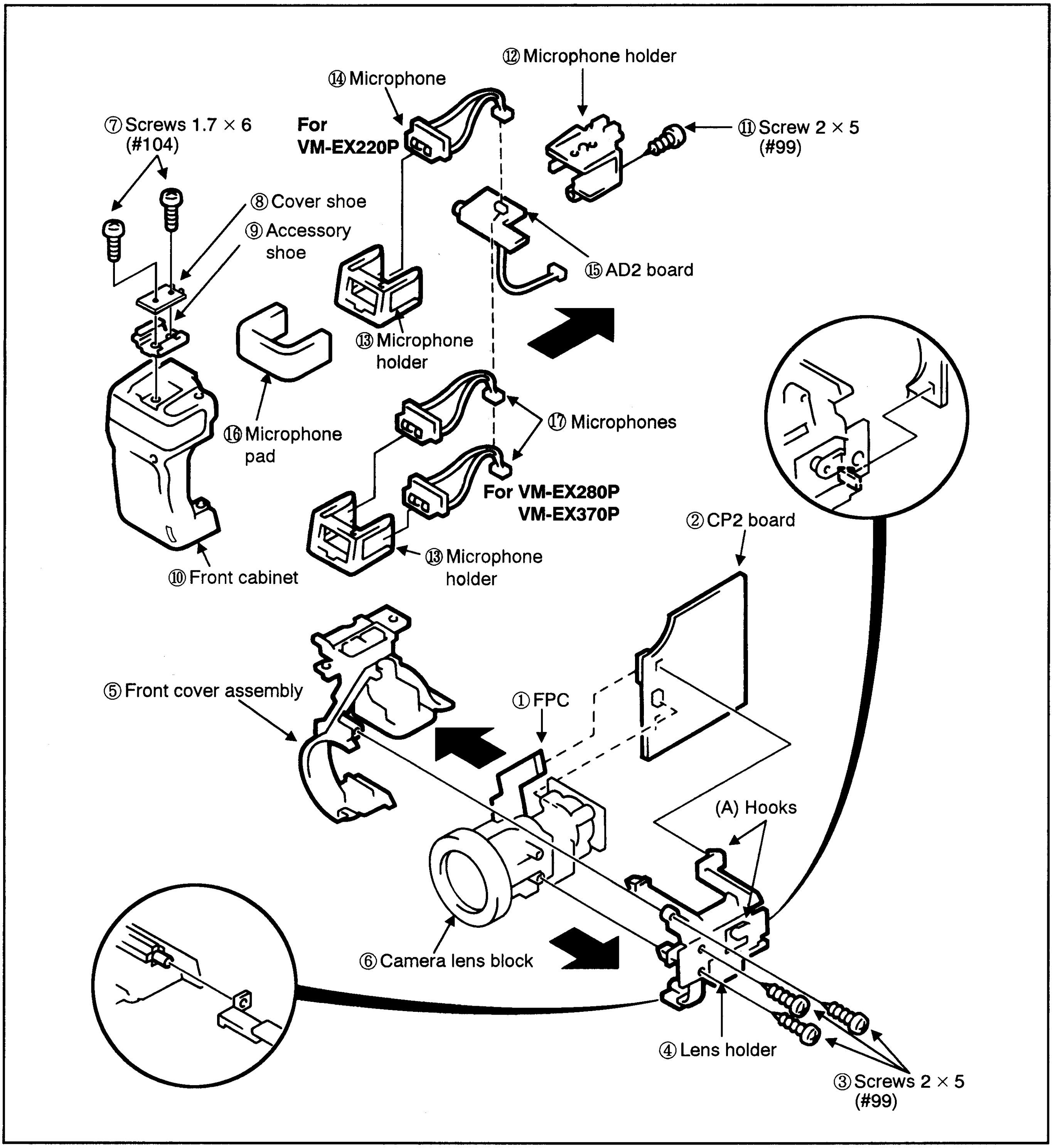
[For VM-EX220P]

4. Remove the screw ⑪, and then remove the microphone holder ⑫ and ⑬, microphone ⑭, AD2 board ⑮ and microphone pad ⑯.

[For VM-EX280P, VM-EX370P]

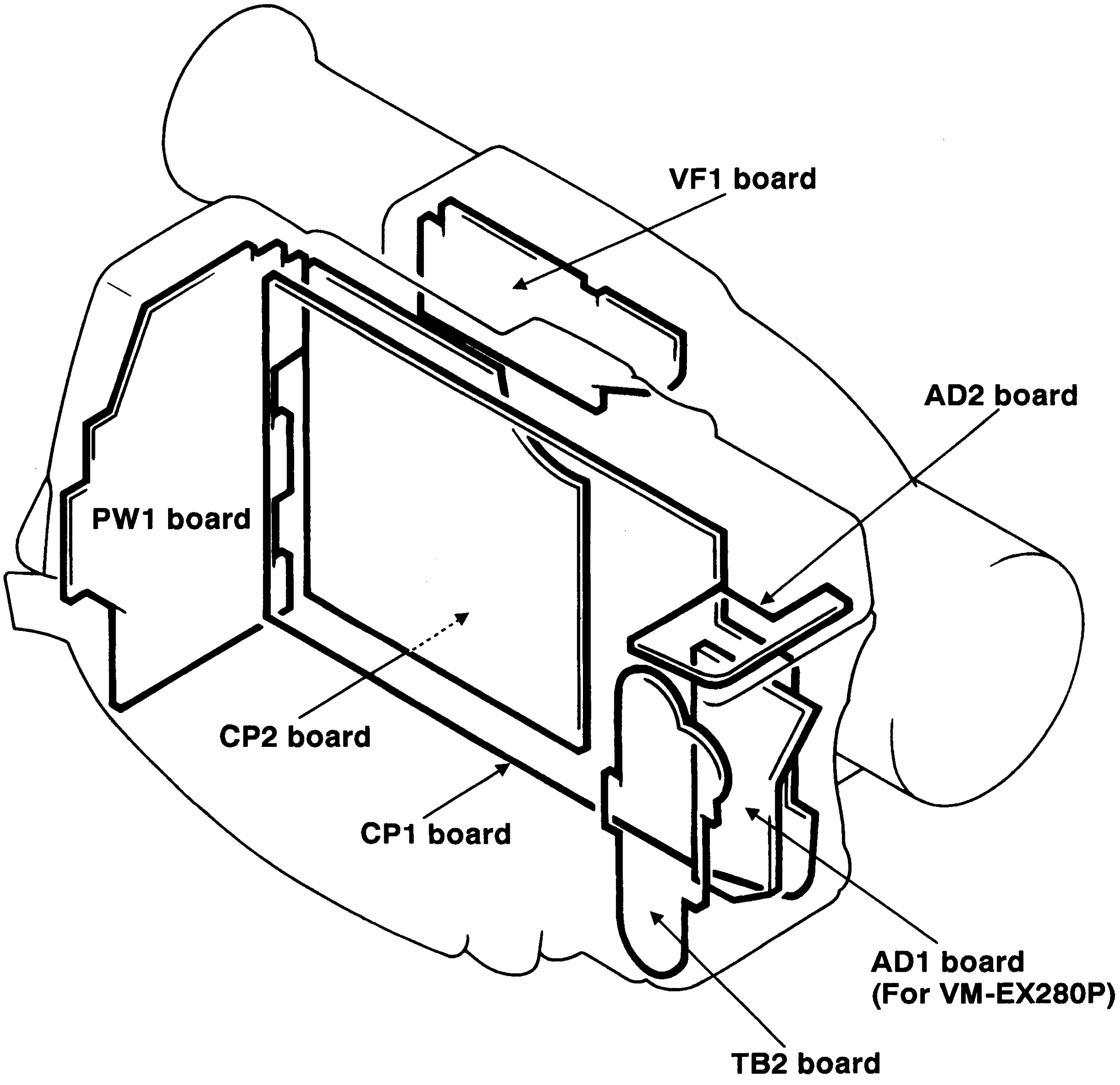
4. Remove the screw ⑪, and then remove the microphone holder ⑫ and ⑬, two microphones ⑰, AD2 board ⑮ and microphone pad ⑯.

Note: For detailed information on how to remove the components, please refer to the **"Parts List"** manual.


⑫ Microphone holder
⑭ Microphone
⑦ Screws 1.7 × 6 (#104)
For VM-EX220P
⑪ Screw 2 × 5 (#99)
⑧ Cover shoe
⑨ Accessory shoe
⑮ AD2 board
⑬ Microphone holder
⑯ Microphone pad
⑰ Microphones
For VM-EX280P VM-EX370P
② CP2 board
⑬ Microphone holder
⑩ Front cabinet
⑤ Front cover assembly
① FPC
(A) Hooks
⑥ Camera lens block
④ Lens holder
③ Screws 2 × 5 (#99)

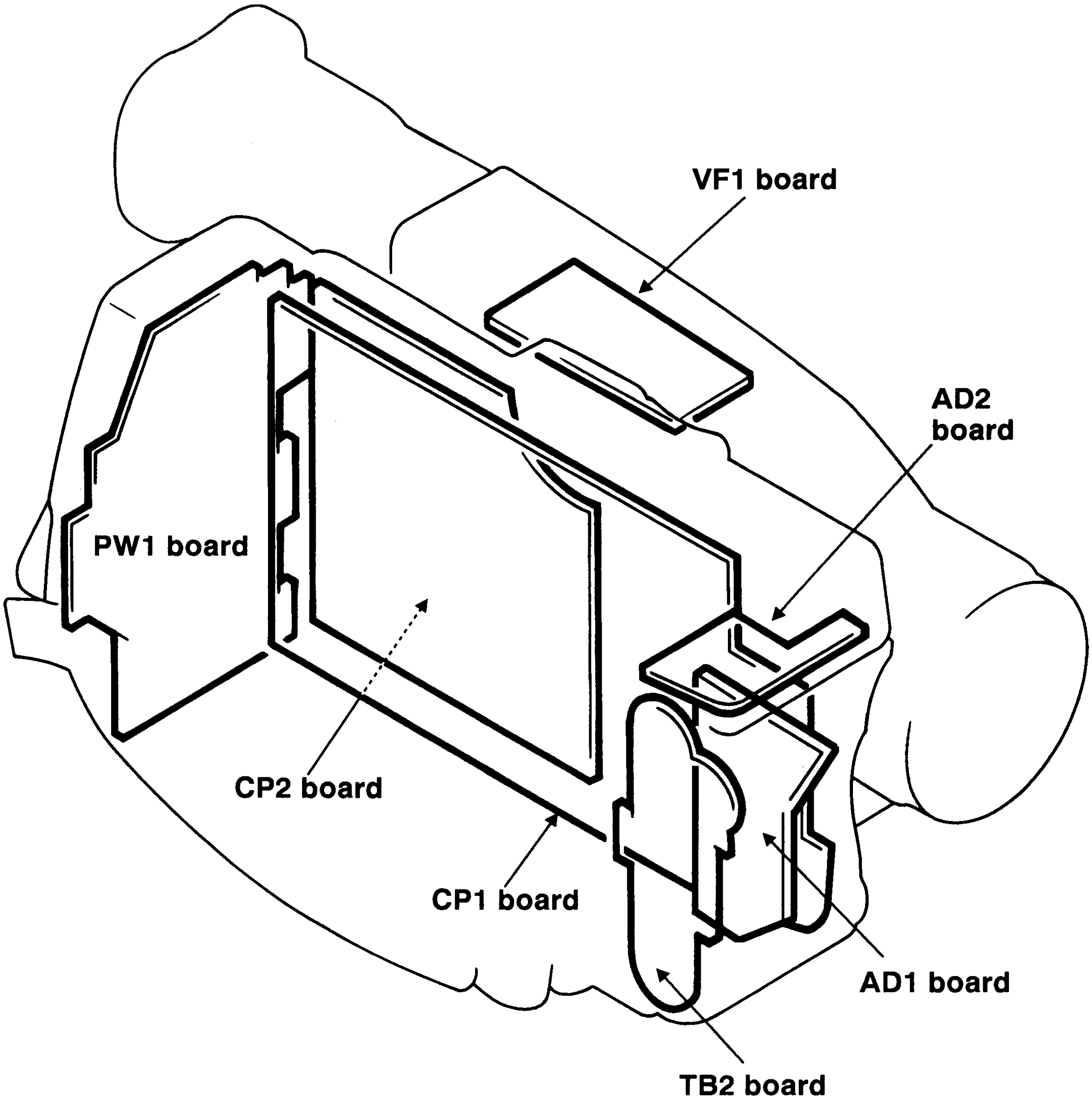
4. BLOCK DIAGRAM

4-1. BOARD LOCATION (For VM-EX220P/280P)


VF1 board
AD2 board
PW1 board
CP2 board
CP1 board
AD1 board
(For VM-EX280P)
TB2 board

AD1 BOARD:	AUDIO CIRCUIT (For VM-EX280P)
AD2 BOARD:	MICROPHONE CIRCUIT
CP1 BOARD:	SERVO/SYSTEM CONTROL CIRCUIT & VIDEO CIRCUIT & AUDIO CIRCUIT
CP2 BOARD:	CAMERA CIRCUIT
PW1 BOARD:	POWER CIRCUIT
TB2 BOARD:	TERMINAL CIRCUIT
VF1 BOARD:	VIEWFINDER CIRCUIT

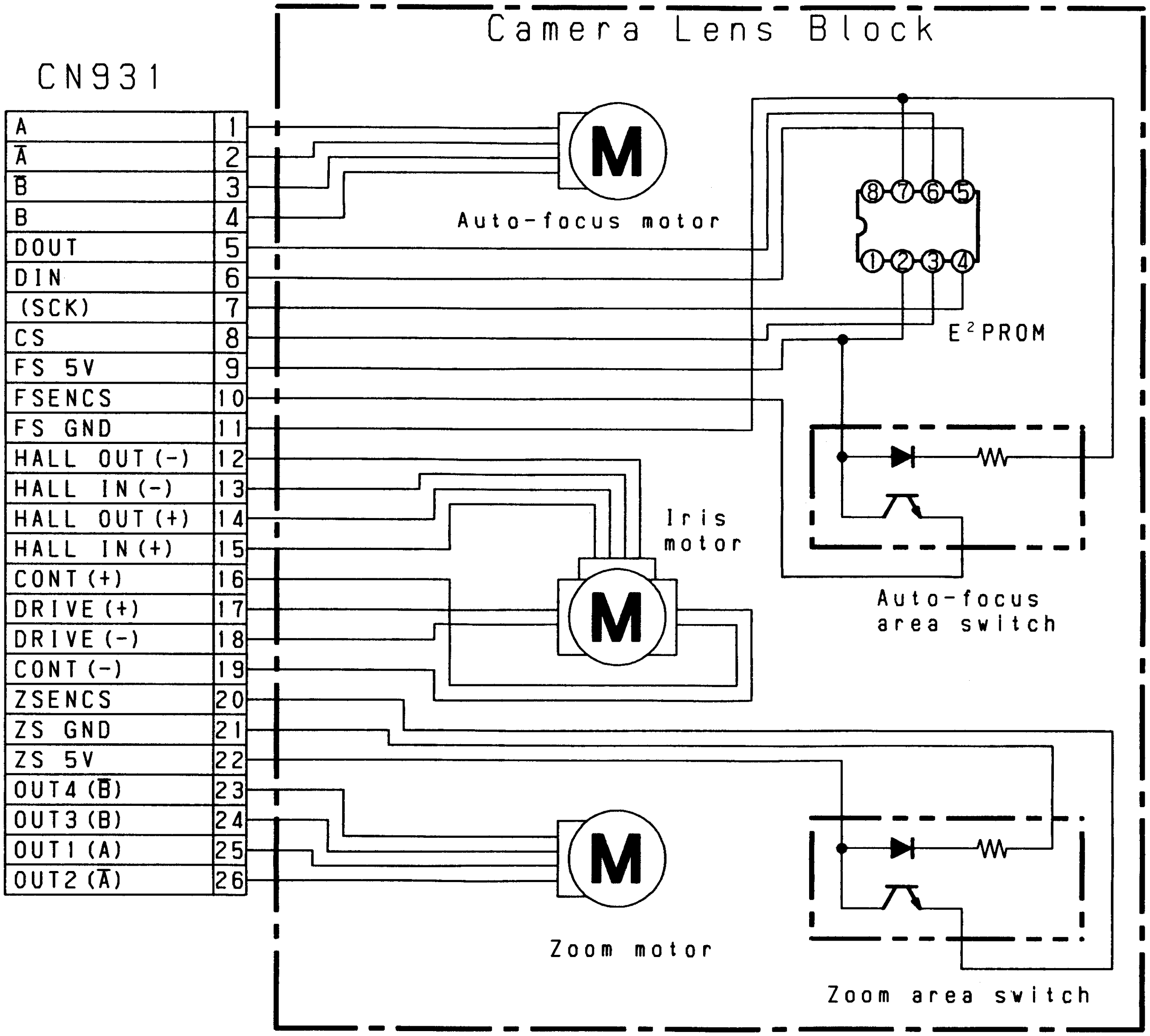
4-2. BOARD LOCATION (For VM-EX370P)


VF1 board
AD2 board
PW1 board
CP2 board
CP1 board
AD1 board
TB2 board

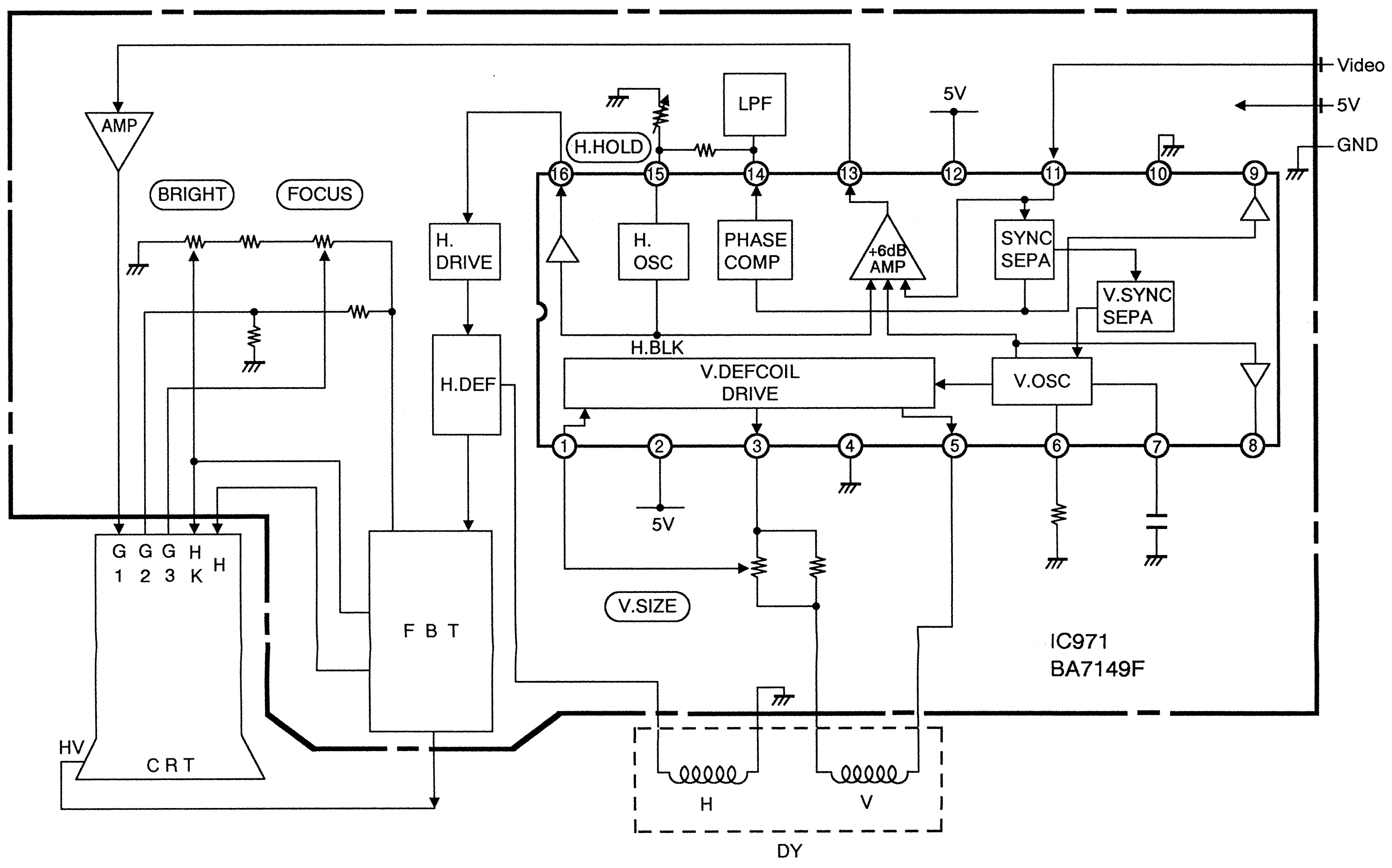
AD1 BOARD:	AUDIO CIRCUIT
AD2 BOARD:	MICROPHONE CIRCUIT
CP1 BOARD:	SERVO/SYSTEM CONTROL CIRCUIT, VIDEO CIRCUIT & AUDIO CIRCUIT
CP2 BOARD:	CAMERA CIRCUIT
PW1 BOARD:	POWER CIRCUIT
TB2 BOARD:	TERMINAL CIRCUIT
VF1 BOARD:	VIEWFINDER CIRCUIT

4-3. BLOCK DIAGRAM

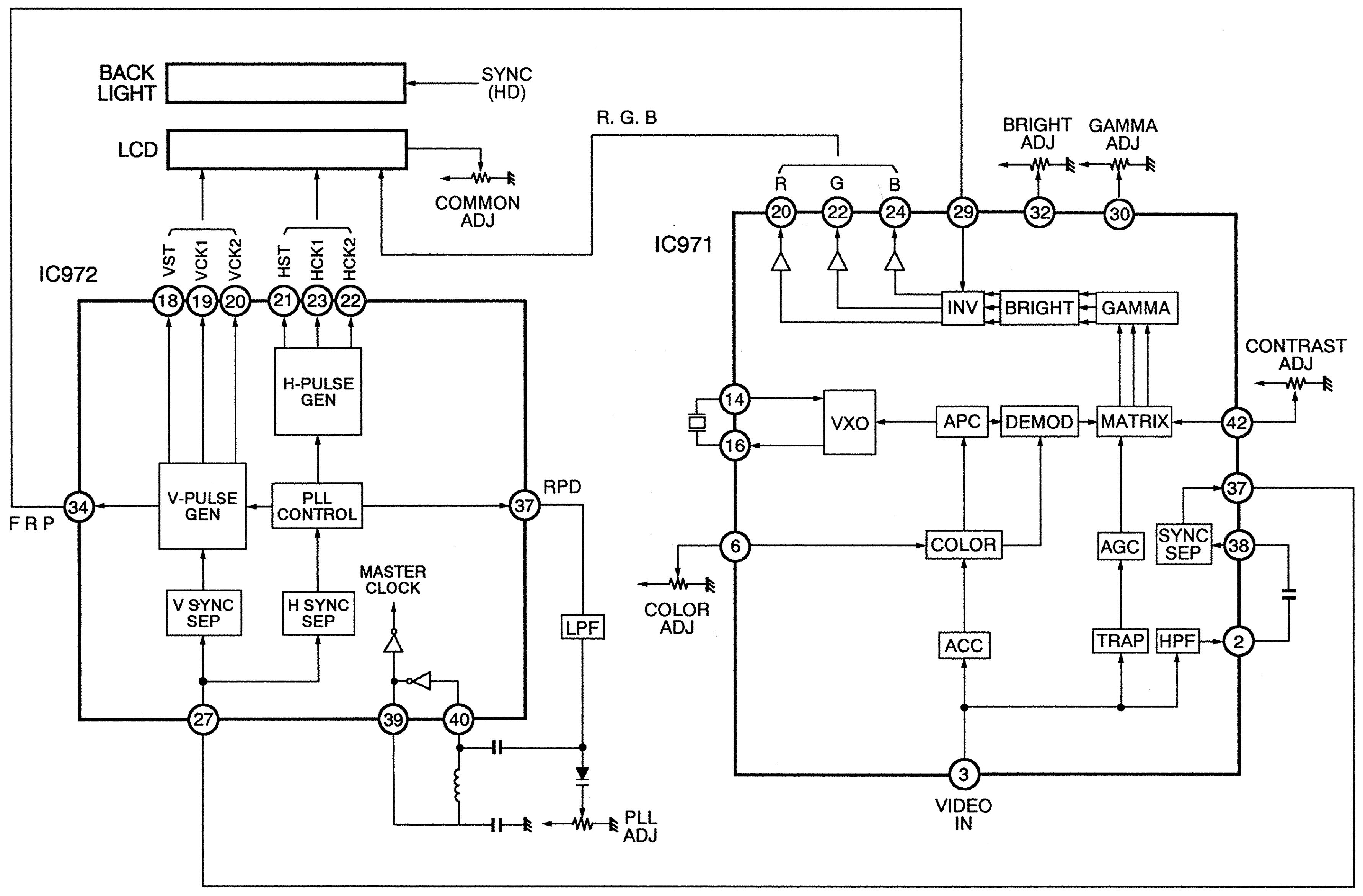
1. CAMERA LENS BLOCK DIAGRAM


Camera Lens Block
CN931
A 1
Ā 2
B̄ 3
B 4
DOUT 5
DIN 6
(SCK) 7
CS 8
FS 5V 9
FSENCS 10
FS GND 11
HALL OUT (-) 12
HALL IN (-) 13
HALL OUT (+) 14
HALL IN (+) 15
CONT (+) 16
DRIVE (+) 17
DRIVE (-) 18
CONT (-) 19
ZSENCS 20
ZS GND 21
ZS 5V 22
OUT4 (B̄) 23
OUT3 (B) 24
OUT1 (A) 25
OUT2 (Ā) 26
M
Auto-focus motor
⑧ ⑦ ⑥ ⑤
① ② ③ ④
E^{2}PROM
Iris motor
M
Auto-focus area switch
M
Zoom motor
Zoom area switch

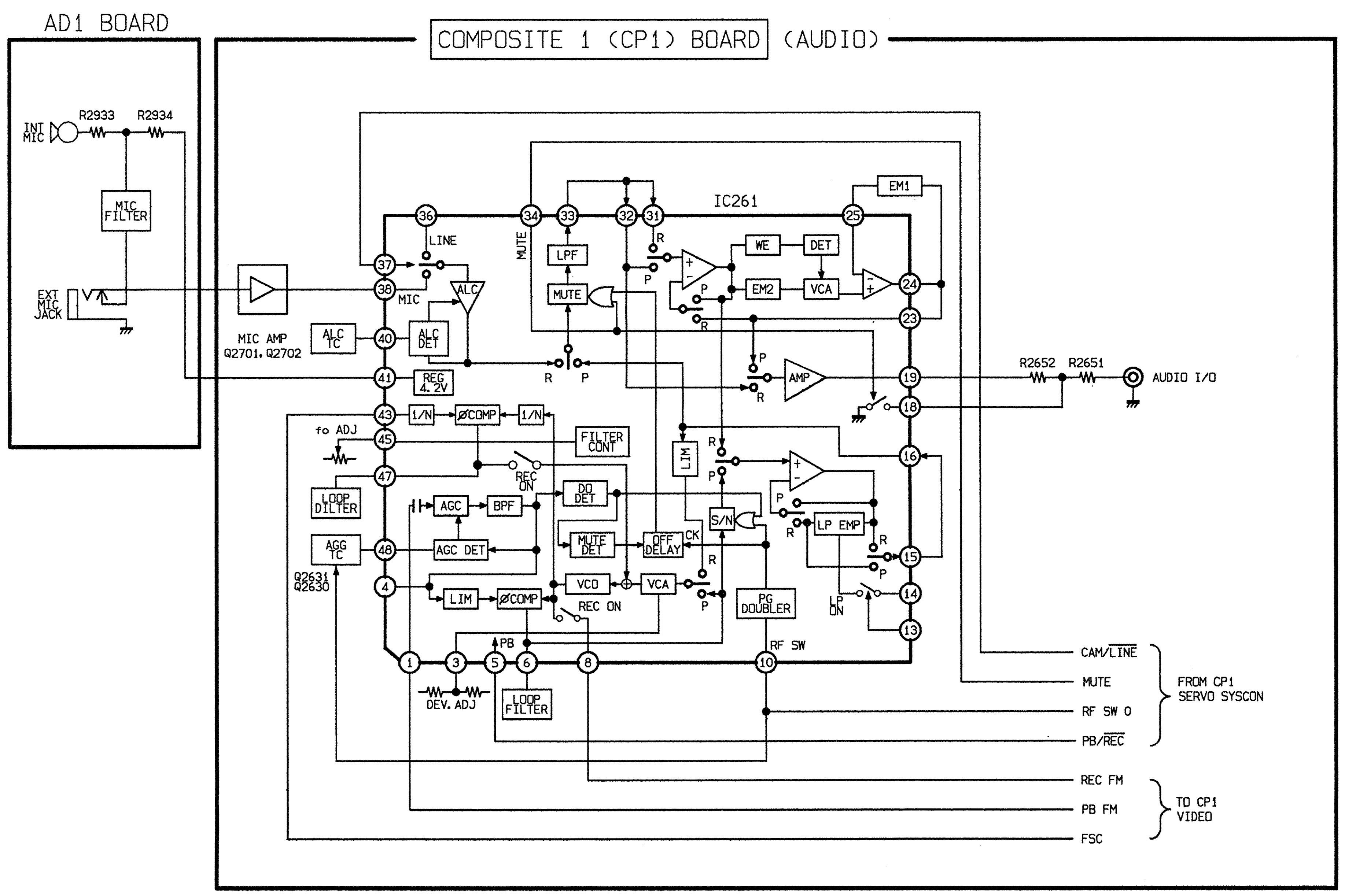
2. VIEWFINDER BLOCK DIAGRAM (For VM-EX220P/280P)


Video
5V
GND
AMP
BRIGHT
FOCUS
H.HOLD
LPF
5V
H. DRIVE
H. OSC
PHASE COMP
+6dB AMP
SYNC SEPA
V.SYNC SEPA
H.BLK
H.DEF
V.DEFCOIL DRIVE
V.OSC
5V
V.SIZE
G 1
G 2
G 3
H K
H
F B T
IC971
BA7149F
HV
C R T
H
V
DY

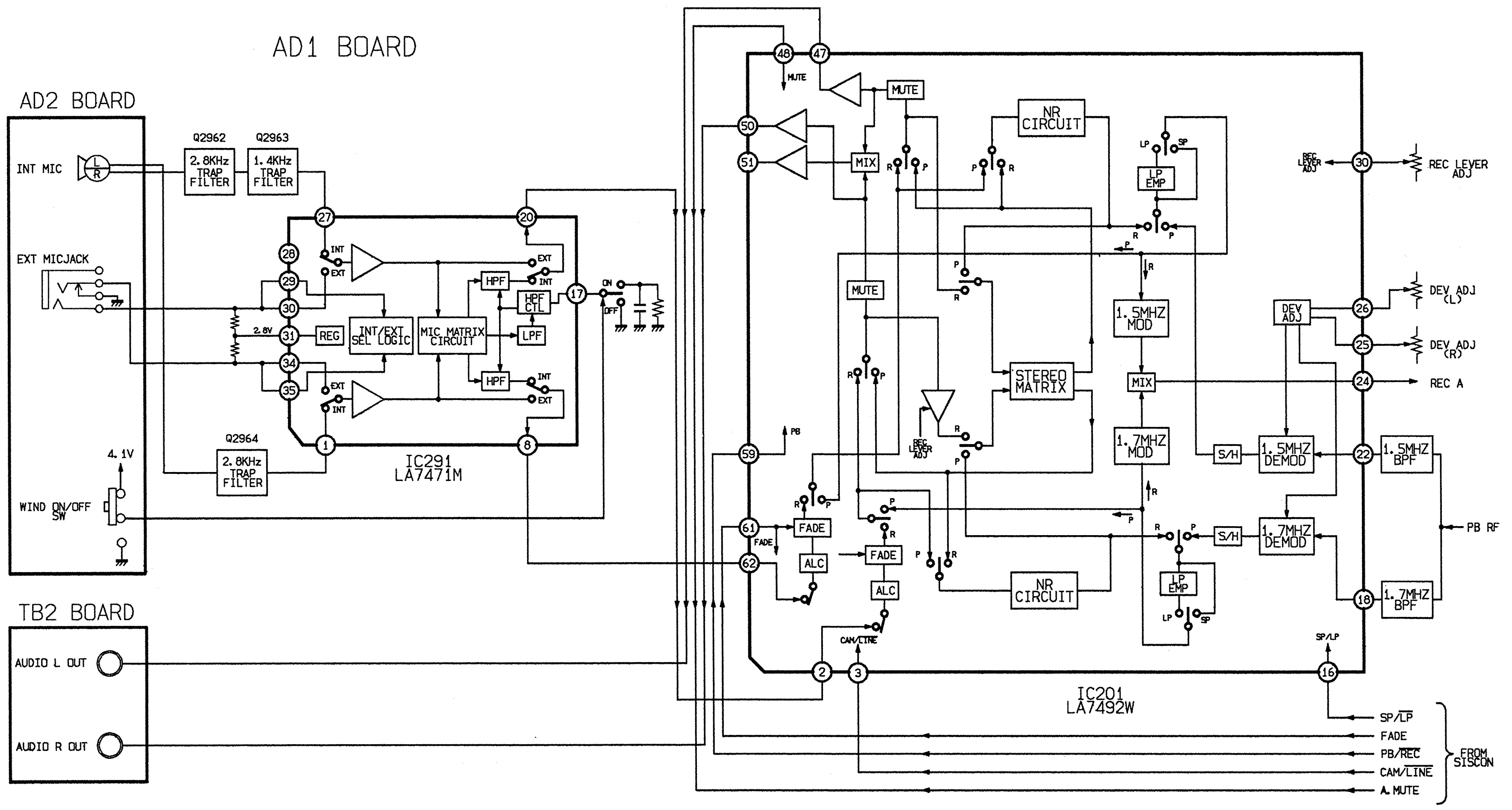
3. VIEWFINDER BLOCK DIAGRAM (For VM-EX370P)


BACK LIGHT
SYNC (HD)
LCD
COMMON ADJ
R. G. B
BRIGHT ADJ
GAMMA ADJ
R
G
B
IC972
VST
VCK1
VCK2
HST
HCK1
HCK2
IC971
INV
BRIGHT
GAMMA
CONTRAST ADJ
H-PULSE GEN
VXO
APC
DEMOD
MATRIX
F R P
V-PULSE GEN
PLL CONTROL
RPD
COLOR
AGC
SYNC SEP
MASTER CLOCK
COLOR ADJ
V SYNC SEP
H SYNC SEP
LPF
ACC
TRAP
HPF
PLL ADJ
VIDEO IN

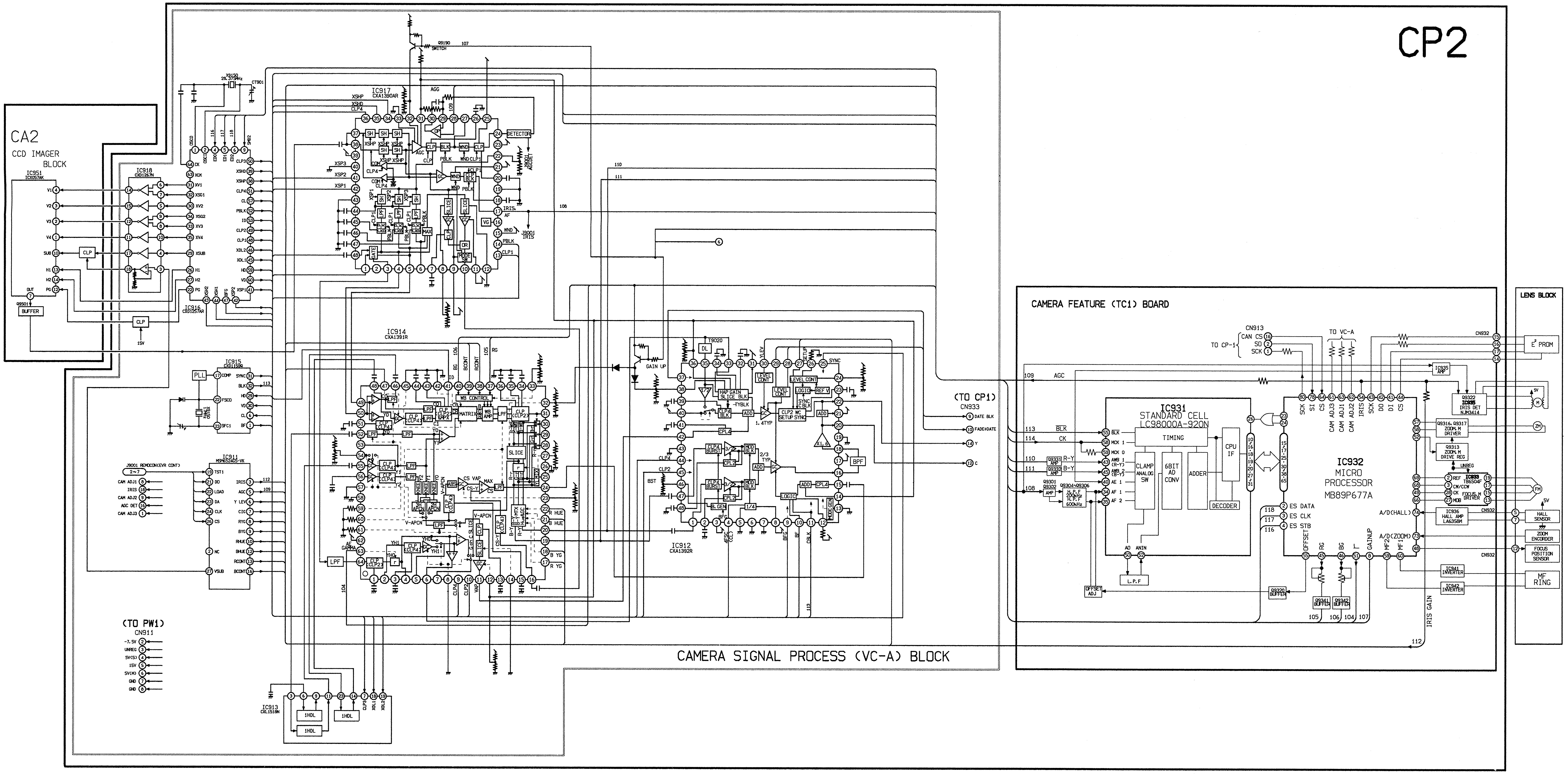
4. AUDIO BLOCK DIAGRAM (For VM-EX220P)


AD1 BOARD
COMPOSITE 1 (CP1) BOARD (AUDIO)
INT MIC
R2933
R2934
MIC FILTER
EXT MIC JACK
MIC AMP
Q2701, Q2702
IC261
LINE
MIC
ALC
ALC TC
ALC DET
REG 4.2V
MUTE
LPF
WE
DET
EM2
VCA
EM1
AMP
R2652
R2651
AUDIO I/O
1/N
ØCOMP
fo ADJ
FILTER CONT
REC ON
LOOP DILTER
AGC
BPF
DO DET
AGG TC
AGC DET
MUTE DET
OFF DELAY
CK
S/N
LIM
LP EMP
Q2631
Q2630
VCO
VCA
PG DOUBLER
LP ON
PB
RF SW
DEV. ADJ
LOOP FILTER
CAM/LINE
MUTE
RF SW 0
PB/REC
FROM CP1 SERVO SYSCON
REC FM
PB FM
FSC
TO CP1 VIDEO

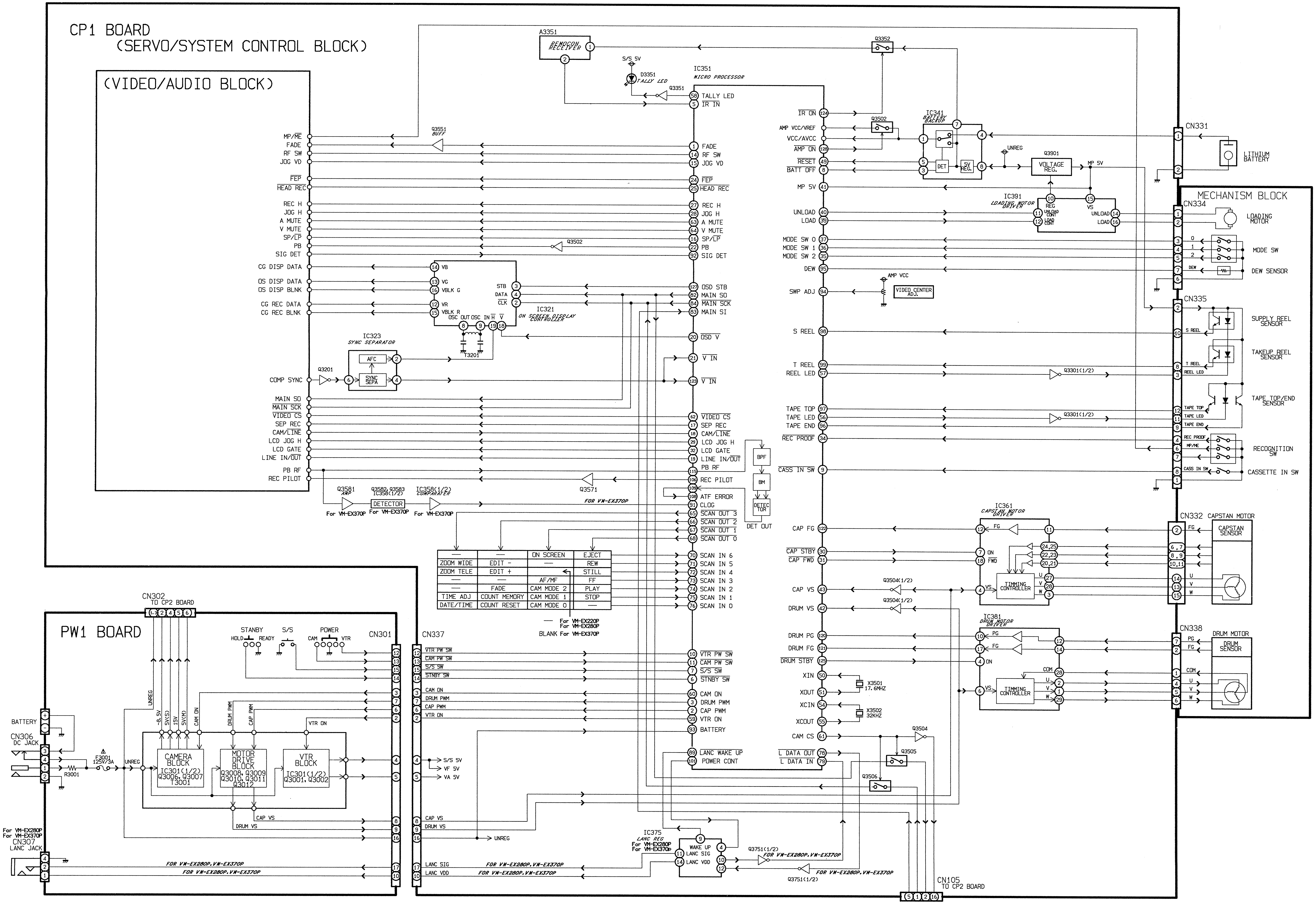
5. AUDIO BLOCK DIAGRAM (For VM-EX280P/370P)


AD1 BOARD
AD2 BOARD
INT MIC
L
R
Q2962
Q2963
2.8KHz TRAP FILTER
1.4KHz TRAP FILTER
EXT MICJACK
INT
EXT
2.8V
REG
INT/EXT SEL LOGIC
MIC MATRIX CIRCUIT
HPF
HPF CTL
LPF
ON
OFF
Q2964
2.8KHz TRAP FILTER
4.1V
WIND ON/OFF SW
IC291
LA7471M
TB2 BOARD
AUDIO L OUT
AUDIO R OUT
MUTE
MIX
NR CIRCUIT
LP
SP
LP EMP
REC LEVER ADJ
1.5MHZ MOD
DEV ADJ
DEV ADJ (L)
DEV ADJ (R)
STEREO MATRIX
MIX
REC A
PB
1.7MHZ MOD
S/H
1.5MHZ DEMOD
1.5MHZ BPF
FADE
ALC
1.7MHZ DEMOD
PB RF
1.7MHZ BPF
CAM/LINE
SP/LP
IC201
LA7492W
SP/LP
FADE
PB/REC
CAM/LINE
A. MUTE
FROM SISCON

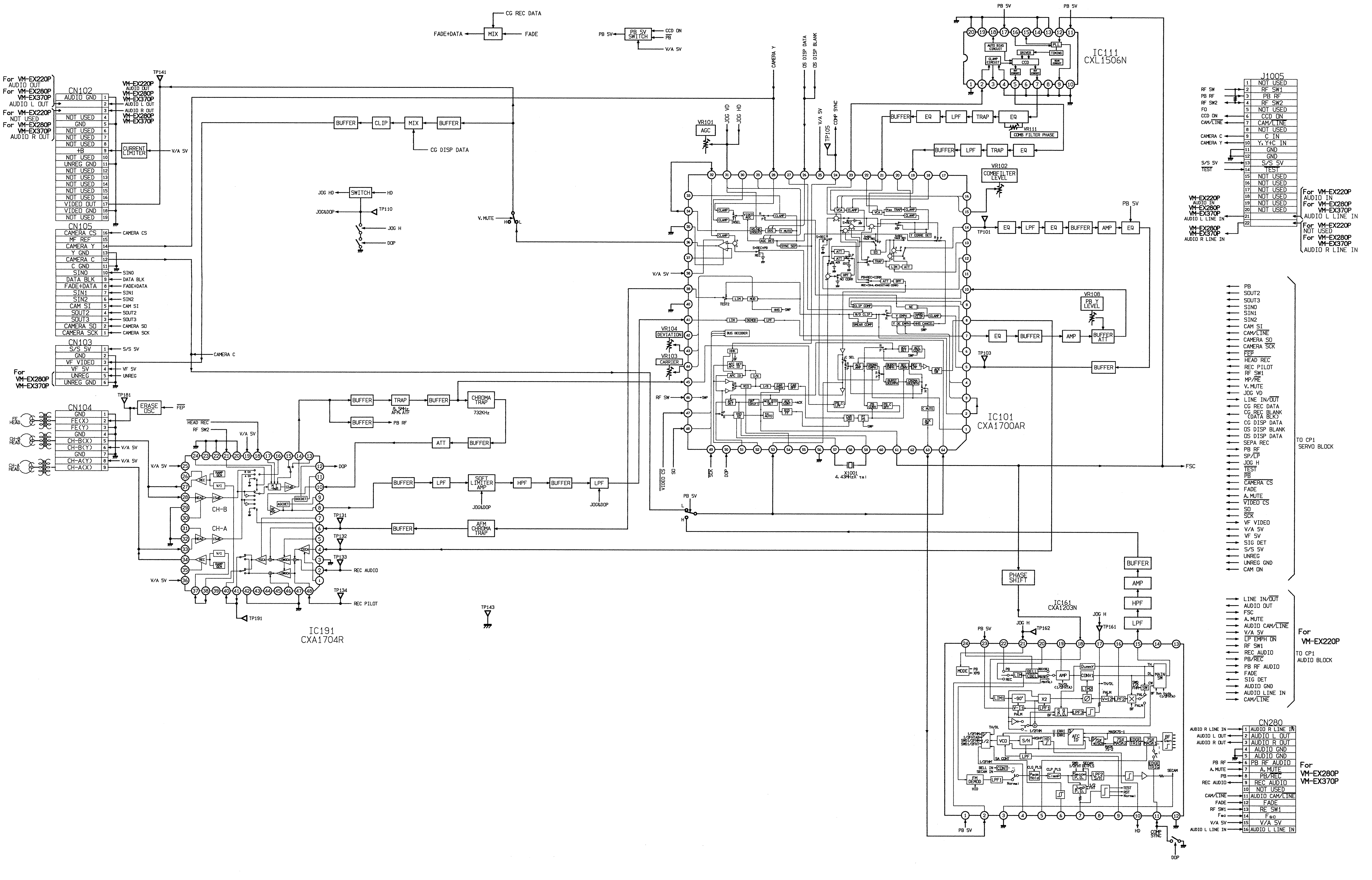
6. CAMERA BLOCK DIAGRAM


CP2
CA2
CCD IMAGER BLOCK
IC951
IC918
IC916
IC917
CXA1390AR
IC914
CXA1391R
IC915
IC911
IC912
CXA1392R
IC913
Q9190 SWITCH
DETECTOR
PLL
CLP
BUFFER
LPF
SLICE
MATRIX
WB CONTROL
BPF
LEVEL CONT
1HDL
(TO PW1)
CN911
-7.5V
UNREG
5V(S)
15V
5V(M)
GND
GND
(TO CP1)
CN933
DATE BLK
FADE+DATE
Y
C
CAMERA SIGNAL PROCESS (VC-A) BLOCK
CAMERA FEATURE (TC1) BOARD
CN913
TO CP-1
CAN CS
SO
SCK
TO VC-A
AGC
IC931
STANDARD CELL
LC98000A-920N
TIMING
CLAMP ANALOG SW
6BIT AD CONV
ADDER
CPU IF
DECODER
OFFSET ADJ
L.P.F
IC932
MICRO PROCESSOR
MB89P677A
ES DATA
ES CLK
ES STB
A/D(HALL)
A/D(ZOOM)
IRIS GAIN
IC935 AMP
Q9322 IRIS DET NJM3414
ZOOM.M DRIVER
ZOOM.M DRIVE REG
IC933 TB6504F
FOCUS.M DRIVER
IC936 HALL AMP LA6358M
IC941 INVERTER
IC942 INVERTER
Q9320 BUFFER
Q9341 BUFFER
Q9342 BUFFER
CN932
LENS BLOCK
E² PROM
HALL SENSOR
ZOOM ENCORDER
FOCUS POSITION SENSOR
MF RING

7. SERVO/SYSTEM CONTROL BLOCK DIAGRAM


CP1 BOARD
(SERVO/SYSTEM CONTROL BLOCK)
(VIDEO/AUDIO BLOCK)
MP/ME
FADE
RF SW
JOG VD
FEP
HEAD REC
REC H
JOG H
A MUTE
V MUTE
SP/LP
PB
SIG DET
CG DISP DATA
OS DISP DATA
OS DISP BLNK
CG REC DATA
CG REC BLNK
COMP SYNC
MAIN SO
MAIN SCK
VIDEO CS
SEP REC
CAM/LINE
LCD JOG H
LCD GATE
LINE IN/OUT
PB RF
REC PILOT
A3351
REMOCON RECEIVER
S/S 5V
D3351
TALLY LED
Q3351
Q3551
BUFF
Q3502
IC321
ON SCREEN DISPLAY CONTROLLER
VB
VG
VBLK G
VR
VBLK R
OSC OUT
OSC IN
H
V
STB
DATA
CLK
T3201
IC323
SYNC SEPARATOR
AFC
SYNC SEPA
Q3201
Q3581
AMP
Q3582, Q3583
IC358(1/2)
DETECTOR
IC358(1/2)
COMPARATER
For VM-EX370P
Q3571
FOR VM-EX370P
IC351
MICRO PROCESSOR
TALLY LED
IR IN
FADE
RF SW
JOG VD
FEP
HEAD REC
REC H
JOG H
A MUTE
V MUTE
SP/LP
PB
SIG DET
OSD STB
MAIN SO
MAIN SCK
MAIN SI
OSD V
V IN
V IN
VIDEO CS
SEP REC
CAM/LINE
LCD JOG H
LCD GATE
LINE IN/OUT
PB RF
REC PILOT
ATF ERROR
CLOG
SCAN OUT 3
SCAN OUT 2
SCAN OUT 1
SCAN OUT 0
SCAN IN 6
SCAN IN 5
SCAN IN 4
SCAN IN 3
SCAN IN 2
SCAN IN 1
SCAN IN 0
BPF
BM
DETECTOR
DET OUT
— | — | ON SCREEN | EJECT
ZOOM WIDE | EDIT − | — | REW
ZOOM TELE | EDIT + | | STILL
— | — | AF/MF | FF
— | FADE | CAM MODE 2 | PLAY
TIME ADJ | COUNT MEMORY | CAM MODE 1 | STOP
DATE/TIME | COUNT RESET | CAM MODE 0 | —
— For VM-EX220P
For VM-EX280P
BLANK For VM-EX370P
VTR PW SW
CAM PW SW
S/S SW
STNBY SW
CAM ON
DRUM PWM
CAP PWM
VTR ON
BATTERY
LANC WAKE UP
POWER CONT
IR ON
AMP VCC/VREF
VCC/AVCC
AMP ON
RESET
BATT OFF
MP 5V
UNLOAD
LOAD
MODE SW 0
MODE SW 1
MODE SW 2
DEW
SWP ADJ
S REEL
T REEL
REEL LED
TAPE TOP
TAPE LED
TAPE END
REC PROOF
CASS IN SW
CAP FG
CAP STBY
CAP FWD
CAP VS
DRUM VS
DRUM PG
DRUM FG
DRUM STBY
XIN
XOUT
XCIN
XCOUT
CAM CS
L DATA OUT
L DATA IN
Q3352
IC341
BATTERY BACKUP
DET
5V REG.
UNREG
Q3901
VOLTAGE REG.
MP 5V
IC391
LOADING MOTOR DRIVER
REG
VS
UNLOAD CONT
LOAD CONT
UNLOAD
LOAD
AMP VCC
VIDEO CENTER ADJ.
Q3301(1/2)
Q3301(1/2)
IC361
CAPSTAN MOTOR DRIVER
FG
ON
FWD
VS
TIMMING CONTROLLER
U
V
W
Q3504(1/2)
Q3504(1/2)
IC381
DRUM MOTOR DRIVER
PG
FG
ON
VS
COM
TIMMING CONTROLLER
X3501
17.6MHZ
X3502
32KHZ
Q3504
Q3505
Q3506
IC375
LANC REG
For VM-EX280P
For VM-EX370P
WAKE UP
LANC SIG
LANC VDD
Q3751(1/2)
FOR VM-EX280P, VM-EX370P
FOR VM-EX280P, VM-EX370P
Q3751(1/2)
CN105
TO CP2 BOARD
CN331
LITHIUM BATTERY
MECHANISM BLOCK
CN334
LOADING MOTOR
MODE SW
DEW SENSOR
CN335
SUPPLY REEL SENSOR
TAKEUP REEL SENSOR
TAPE TOP/END SENSOR
RECOGNITION SW
CASSETTE IN SW
S REEL
T REEL
REEL LED
TAPE TOP
TAPE LED
TAPE END
REC PROOF
MP/ME
CASS IN SW
CN332 CAPSTAN MOTOR
CAPSTAN SENSOR
CN338
DRUM MOTOR
DRUM SENSOR
PW1 BOARD
CN302
TO CP2 BOARD
STANBY
HOLD
READY
S/S
POWER
CAM
VTR
CN301
CN337
BATTERY
CN306
DC JACK
R3001
F3001
125V/3A
UNREG
-8.5V
5V(S)
15V
5V(M)
CAM ON
DRUM PWM
CAP PWM
VTR ON
CAMERA BLOCK
IC301(1/2)
Q3006, Q3007
T3001
MOTOR DRIVE BLOCK
Q3008, Q3009
Q3010, Q3011
Q3012
VTR BLOCK
IC301(1/2)
Q3001, Q3002
CAP VS
DRUM VS
S/S 5V
VF 5V
VA 5V
UNREG
For VM-EX280P
For VM-EX370P
CN307
LANC JACK
FOR VM-EX280P, VM-EX370P
FOR VM-EX280P, VM-EX370P
LANC SIG
LANC VDD

8. VIDEO BLOCK DIAGRAM


IC101
CXA1700AR
IC111
CXL1506N
IC191
CXA1704R
IC161
CXA1203N
CN102
CN105
CN103
CN104
CN280
J1005
For VM-EX220P AUDIO OUT
For VM-EX280P VM-EX370P AUDIO L OUT
For VM-EX220P NOT USED
For VM-EX280P VM-EX370P AUDIO R OUT
AUDIO GND
NOT USED
GND
+B
UNREG GND
VIDEO OUT
VIDEO GND
CAMERA CS
MF REF
CAMERA Y
Y GND
CAMERA C
C GND
SINO
DATA BLK
FADE+DATA
SIN1
SIN2
CAM SI
SOUT2
SOUT3
CAMERA SO
CAMERA SCK
S/S 5V
VF VIDEO
VF 5V
UNREG
FE HEAD
CH-B HEAD
CH-A HEAD
FE(X)
FE(Y)
CH-B(X)
CH-B(Y)
CH-A(Y)
CH-A(X)
CURRENT LIMITER
V/A 5V
ERASE OSC
FEP
TP141
TP181
TP191
TP110
TP131
TP132
TP133
TP134
TP143
TP101
TP103
TP105
TP161
TP162
CG REC DATA
FADE+DATA
MIX
FADE
PB 5V SWITCH
CCD ON
PB
CAMERA Y
OS DISP DATA
OS DISP BLANK
COMP SYNC
JOG VD
JOG HD
VR101 AGC
VR102 COMBFILTER LEVEL
VR103 CARRIER
VR104 DEVIATION
VR108 PB Y LEVEL
VR111 COMB FILTER PHASE
BUFFER
CLIP
CG DISP DATA
SWITCH
JOG HD
JOG&DOP
JOG H
DOP
V.MUTE
EQ
LPF
TRAP
AMP
BUFFER ATT
CHROMA TRAP 732KHz
8.5MHz AFM, ATF
PB RF
ATT
SOFT LIMITER AMP
HPF
AFM CHROMA TRAP
REC AUDIO
REC PILOT
HEAD REC
RF SW2
RF SW
CH-B
CH-A
VIDEO CS
SO
SCK
X1001 4.43MHz Xtal
FSC
PHASE SHIFT
MODE
HD
TO CP1 SERVO BLOCK
TO CP1 AUDIO BLOCK
For VM-EX220P
For VM-EX280P VM-EX370P
NOT USED
RF SW1
PB RF
CCD ON
CAM/LINE
C IN
Y, Y+C IN
TEST
AUDIO L LINE IN
AUDIO R LINE IN
AUDIO IN
AUDIO L OUT
AUDIO R OUT
AUDIO GND
PB RF AUDIO
A. MUTE
PB/REC
FADE
RF SW1
Fsc
AUDIO CAM/LINE
PB
SOUT2
SOUT3
SINO
SIN1
SIN2
CAM SI
CAMERA SO
CAMERA SCK
FEP
HEAD REC
REC PILOT
MP/ME
V. MUTE
JOG VD
LINE IN/OUT
CG REC DATA
CG REC BLANK (DATA BLK)
CG DISP DATA
OS DISP DATA
OS DISP BLANK
SEPA REC
PB RF
SP/LP
JOG H
TEST
CAMERA CS
A. MUTE
VIDEO CS
SIG DET
CAM ON
AUDIO OUT
LP EMPH ON
SIG DET
AUDIO LINE IN

5. ELECTRICAL ADJUSTMENT

1. CAMERA BLOCK ADJUSTMENT

1-1. TABLE FOR SERVICING TOOLS

Ref. No	Name	Part code
J-1	Color viewer 5,100K	VJ8-0007
J-2	Gray scale (γ = 0.45)	VJ8-0010
J-3	Color bar chart	VJ8-0009
J-4	Siemens star chart	
J-5	Two color temperature conversion filters (LBA8)	VJ8-0002
J-6	Socket pull-out tool	VJ8-0030
J-7	Camera block fixing tool	VJ8-0128
J-8	Pan head	VJ8-0101
J-9	Circuit board connecting tool	VJ8-0140
J-10	Extension cord (CP1 to CP2)	VJ8-0139
J-11	Extension cord (CP2 to PW1)	VJ8-0129
J-12	Adjustment controller	VJ8-0103 VJ8-0141
J-13	Adjustment (−) screwdriver	VJ8-0104

Note: J-1 Color viewer is 100 ~ 110 VAC only.

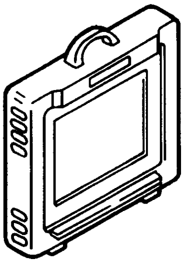
1-2. EQUIPMENTS

1. Vectorscope
2. Oscilloscope
3. Color monitor
4. Digital voltmeter
5. Frequency counter
6. DC regulated power supply

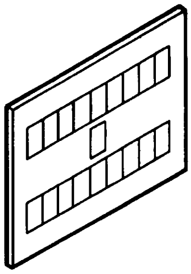
1-3. ADJUSTMENT ITEM AND ORDER

1. Oscillation frequency adjustment
2. Focus position adjustment
3. Zooming curve adjustment
4. CCD driving voltage adjustment
5. PLL voltage provisional adjustment
6. Auto iris level adjustment
7. AGC level adjustment
8. Y level adjustment
9. Chroma balance adjustment
10. Hue and chroma level adjustment
11. 5,100K AWB adjustment
12. 2,800K AWB adjustment
13. PLL voltage adjustment

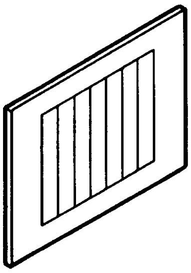
J-1



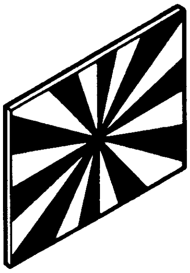
J-2



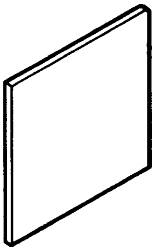
J-3



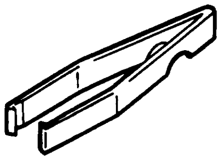
J-4



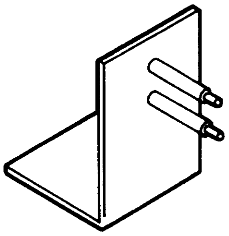
J-5



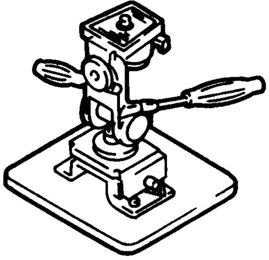
J-6



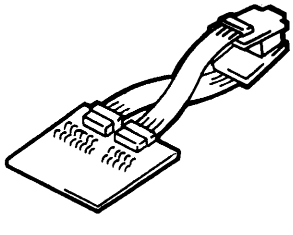
J-7



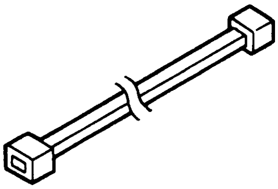
J-8



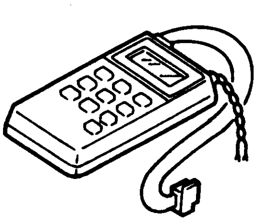
J-9



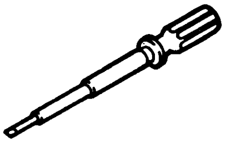
J-10 / J-11



J-12



J-13



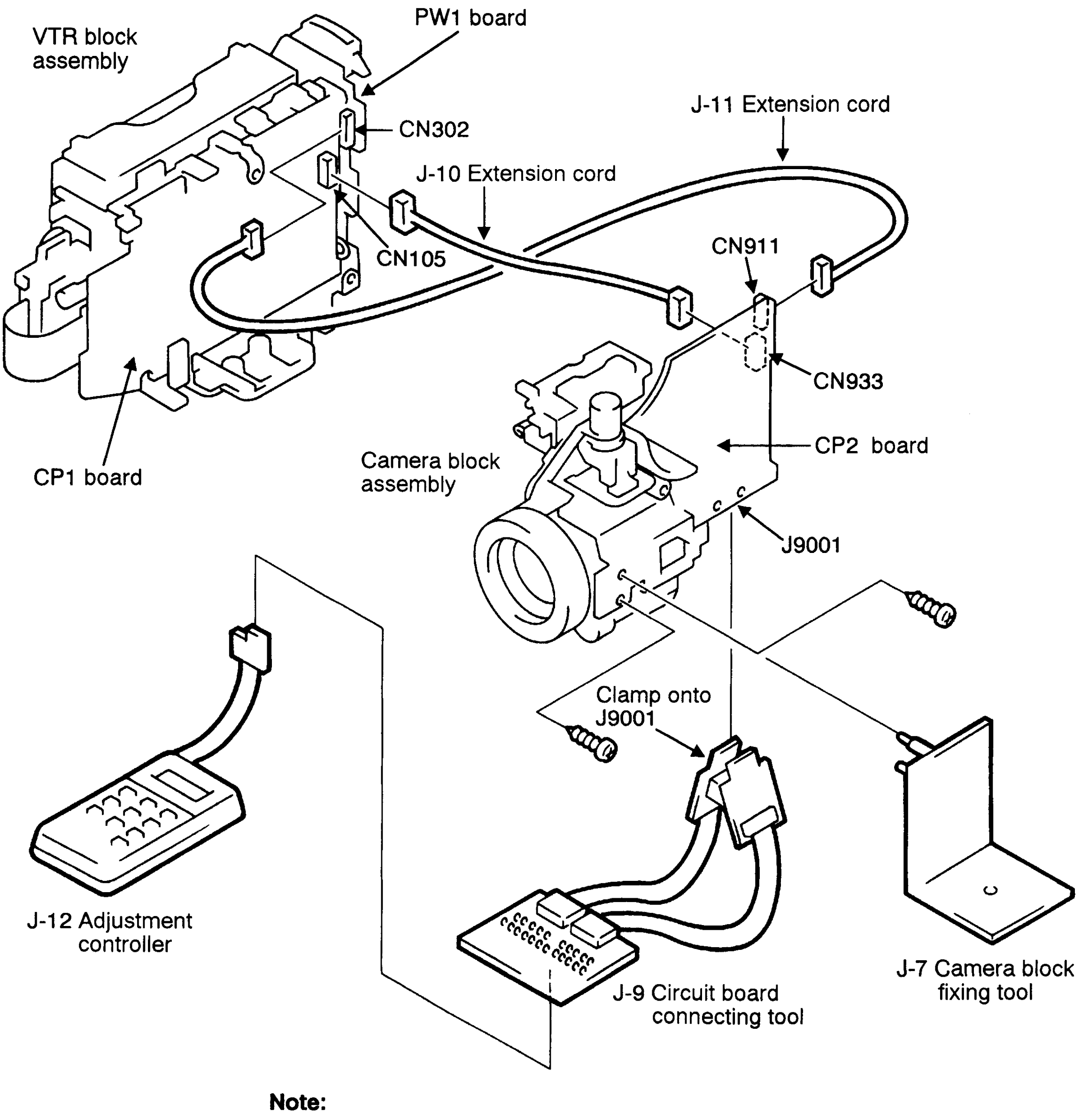
1-4. SETUP AND CONNECTION

Refer to "**3. DISASSEMBLY**" to remove the cabinet and each board.

1. Set the camera block assembly to the tool J-7 as illustrated.
2. Set up the camera block assembly and VTR block assembly as illustrated.
3. Connect as follows. Note that the required preparation differs a little depending on the adjustment item.
   CP1 to CP2 (J10)
   CP2 to PW1 (J-11)
   CP2 to Adjustment Controller (Refer to 1-7)

NOTES:

- Open or ground the test pin J9001 ① [CAM ADJ.3], J9001 ⑧ [CAM ADJ.1] and J9001 ⑨ [CAM ADJ.2] in accordance with the adjustment specification.
- Use the test pin J9001 ⑬ [ID] and J9001 ⑮ [GND] as the trigger for the oscilloscope and GND.
- The circuit board connecting tool J-9 is also used in "**2. VTR BLOCK ADJUSTMENT.**"


VTR block assembly
PW1 board
CN302
J-11 Extension cord
J-10 Extension cord
CN105
CN911
CN933
CP2 board
CP1 board
Camera block assembly
J9001
Clamp onto J9001
J-12 Adjustment controller
J-9 Circuit board connecting tool
J-7 Camera block fixing tool

Note:
Because there is a slight lobe on the J9001, the J-9 circuit board connecting tool may not become clamped in some cases. If this happens, use a file to gently file away the lobe. If too much is filed away, pin (16) of J9001 will form an open circuit, and it will not be possible to use [AGC.DET] of pin (16) of J9001 as the measurement point for **7. AGC Level Adjustment** in "**CAMERA BLOCK ADJUSTMENT.**"
Connect the oscilloscope probe to pin (24) of IC917 instead of pin (16) of J9001.

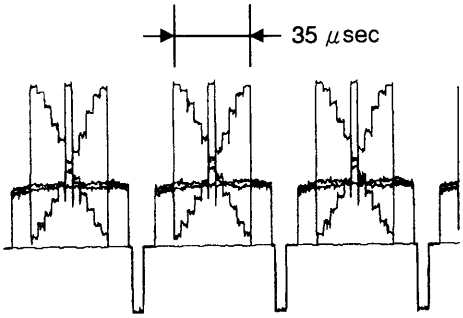
1-5. NOTES

1. Perform the adjustment after aging for ten minutes or more.
2. As a rule, perform the adjustment in the order as shown in the section 1-8.
3. Set the line select switch of the vectorscope to +V.

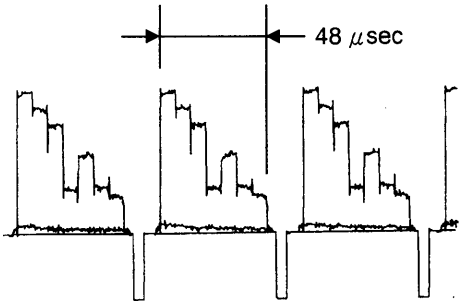
1-6. STANDARD SETTING

1. Use the 5,100K viewer for a subject.
2. Set to about 70 cm the distance from subject and adjust with the power zoom buttons so that each picture frame size becomes as shown below when performing the adjustment with the gray scale and the color bar.
3. Operate the power zoom buttons so that the viewer without chart is monitored on the whole screen when performing the adjustment with the all white pattern.
4. Connect the equipment.

Gray scale



Color bar



1-7. ADJUSTMENT CONTROLLER

The EVR IC incorporates the non-volatile memory and the 8 bits D/A converter of 12 channels.

The adjustment controller performs the following communications with EVR IC.

They are channel designation, up/down of data (8 bits, 0 to 255), reading out of the data written in the memory and writing of the data to the memory, etc.

These operations can be performed by the key operations of the adjustment controller.

Use the adjustment controller as described below.

① **Connecting method**

Turn off the power supply of the AC adaptor, then connect test pin array J9001 of CP2 board to the adjustment controller using the J-9 circuit board connecting tool. (Refer to 1-4.)

② **Power supply**

Use the DC regulated power supply for the power supply of the adjustment controller and connect 6 to 8 VDC to the pin jack.

- Turn on/off the power supply of camera and the power supply of the adjustment controller at the same time.

③ **Test pin array**

Due to its small size, connect test pin array J9001 of CP2 board to the adjustment controller using the J-9 circuit board connecting tool. The J-9 relay board is, as the J9001, also located in the test pin array.

④ **Relation between the adjusting data value and EVR IC output voltage**

When setting the adjusting data value as N, and EVR IC output voltage as V (N), the following formula is obtained.

$V(N) \fallingdotseq 0.5 + 3N/255$

(Example): $V(0) \fallingdotseq 0.5$ volt, $V(128) \fallingdotseq 2.0$ volt,
$V(255) \fallingdotseq 3.5$ volt

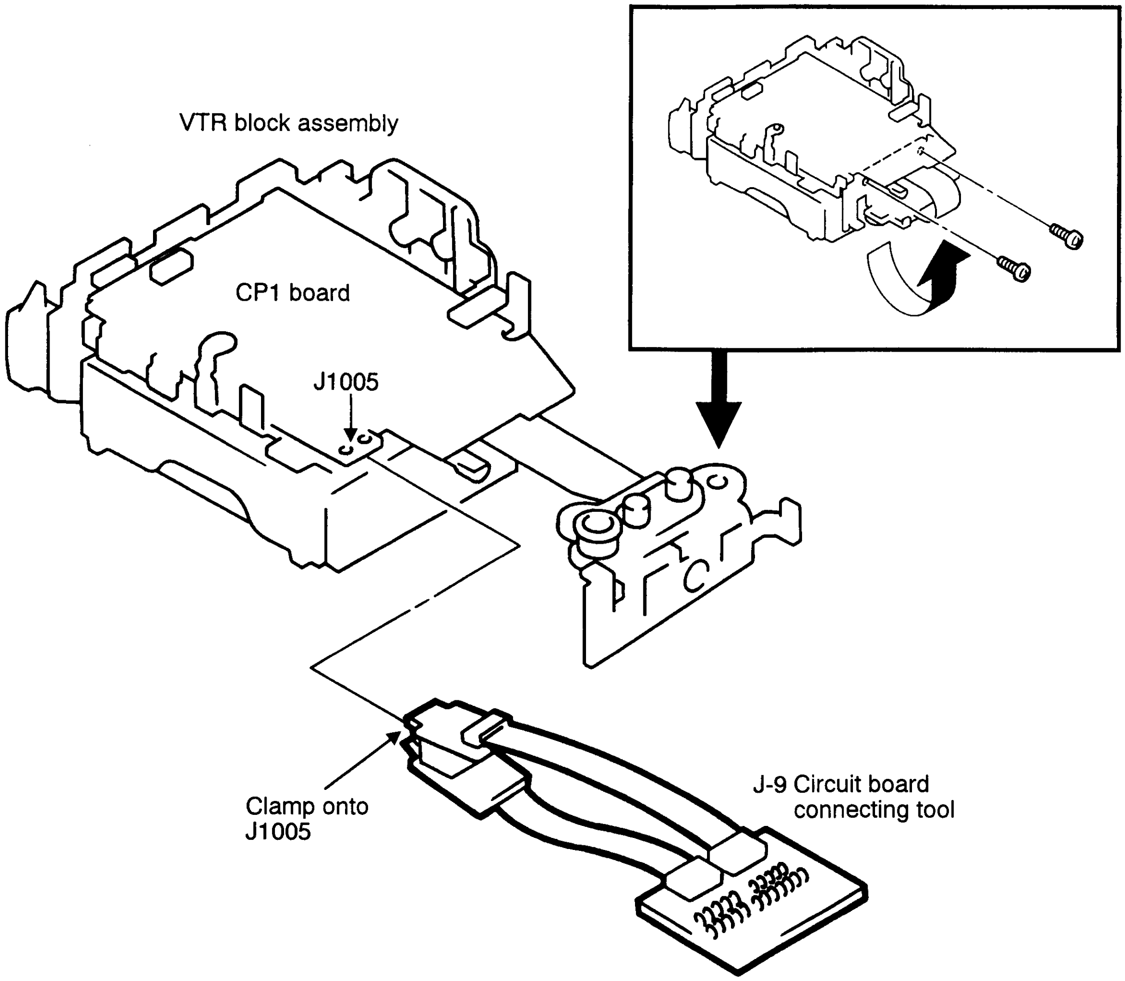
⑤ **Note on using the adjustment controller**

The correct adjusting data may be deleted by misoperation of the adjustment controller. The following three items are recommended to prevent this.

1. Before performing the adjustment, note after reading out the adjusting data (0 to 255) of each channel.
2. Note the new adjusting data every time an adjustment of item completes.
3. Send each data to the D/A converter of each channel by pressing AID+SEND and AID+WRT after setting the data of all adjusting items and store each into the memory to finish the adjustment.

(Refer to VJ8-0103 or VJ8-0141 Adjustment controller Instruction Manual.)

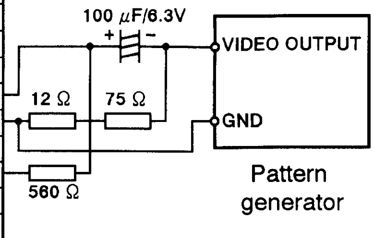
2-3. SETUP AND CONNECTION


VTR block assembly
CP1 board
J1005
Clamp onto J1005
J-9 Circuit board connecting tool

(Video circuit adjustment pattern generator input signal connecting method)

J1005

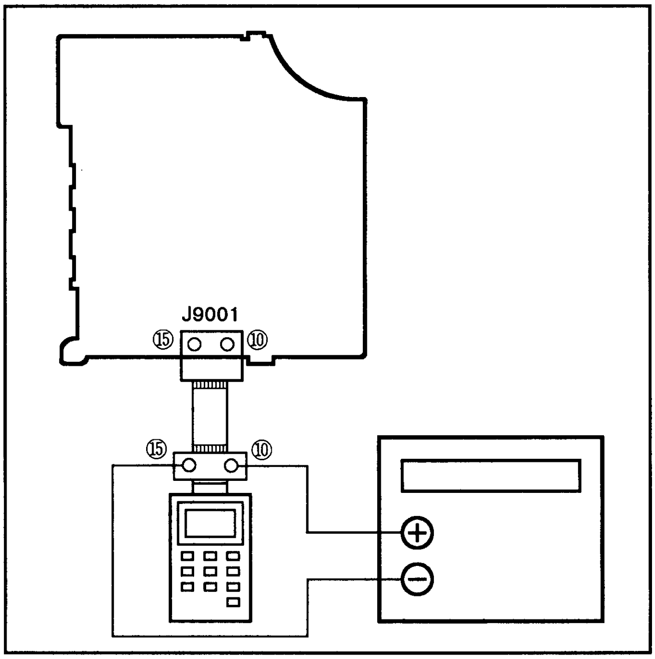
NOT USED	1
RF SW1	2
PB RF	3
RF SW2	4
NOT USED	5
CCD ON	6
CAM/LINE	7
NOT USED	8
C IN	9
Y, Y + C IN	10
GND	11
GND	12
S/S 5V	13
TEST	14
NOT USED	15
NOT USED	16
NOT USED	17
NOT USED	18
NOT USED	19
NOT USED	20
AUDIO IN	21
NOT USED	22


100 µF/6.3V
+
−
VIDEO OUTPUT
12 Ω
75 Ω
GND
560 Ω
Pattern generator

CP1 Board

3. Zooming Curve Adjustment

[Connection]



[Adjustment]

Measuring Point	Measuring Equipment	Condition
Test pin array J9001 ⑩ [ADJ. END] J9001 ⑮ [GND]	Digital voltmeter	Power OFF ➡ ON
	Subject	
	Siemens star (from lens surface: 120 cm illuminance: 50 to 120 lux/5,100K)	

ADJ. Location	ADJ. Value

Preparation:

- Short pin ① and pin ⑧ , then short pin ⑨ and pin ⑮ of J9001.

Adjusting method:

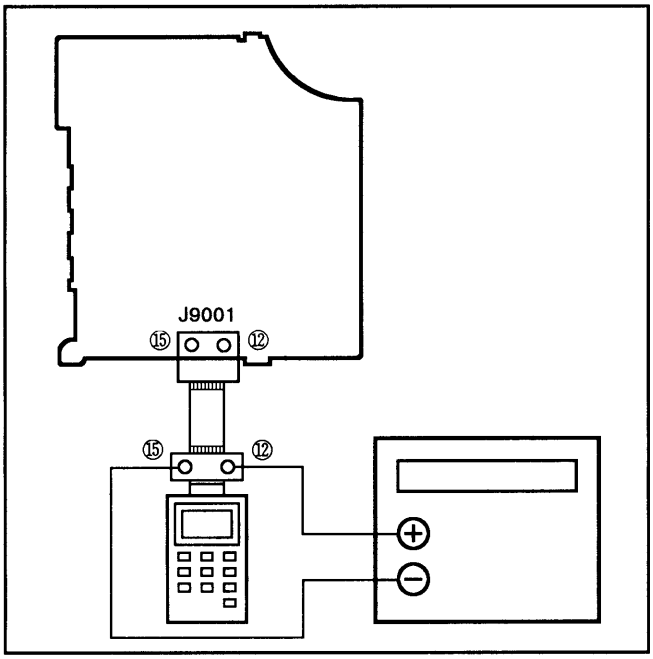
1. Turn on the power by changing the Stand-by switch from "POWER SAVE" to "STANDBY".
2. The DC voltage of J9001 ⑩ will change from High (4 ~ 5 V) to Low (below 1 V), and the adjustment will be completed. (About 15 seconds)

NOTES:

- After turning the power on it takes up to 10 seconds to adjust the focus. The adjustment is completed after the screen gets black, comes on and gets black again.
- After the focus position adjustment, adjust the zooming curve. In case vibrations that may cause the subject to come out of focus are detected during the adjustment, the focus will be readjusted.

4. CCD Driving Voltage Adjustment

[Connection]



[Adjustment]

Measuring Point	Measuring Equipment	Condition
J9001 ⑫ [VSUB] J9001 ⑮ [GND]	Digital voltmeter	CAMERA EE
	Subject	
	No designation	

ADJ. Location	ADJ. Value
EVR CH1 [VSUB]	Abbreviation voltage value ± 0.05 V

Preparation:

- Short pin ① and pin ⑧ , then short pin ⑨ and pin ⑮ of J9001.

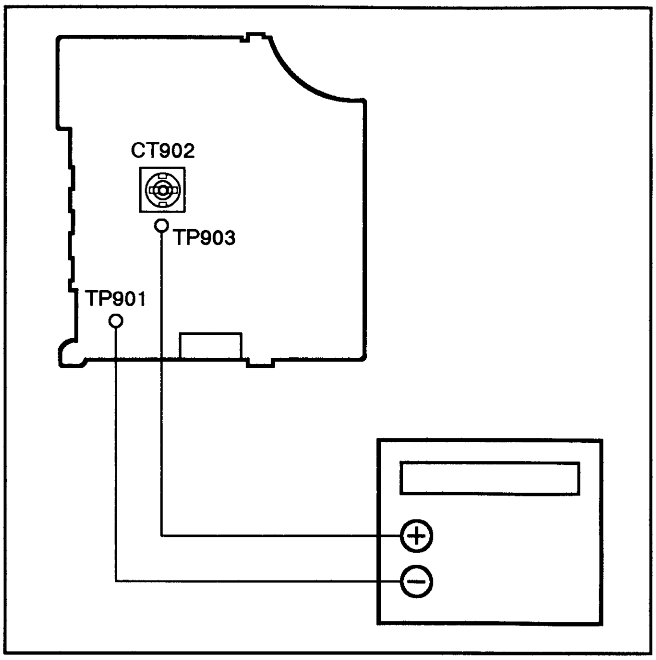
Adjusting method:

1. Read the abbreviation of one digit displayed on the rear side of CCD. Convert these to the voltage with the table below.
   For example, [L] displays VSUB = 10.0 V
2. Press the RESET key once (when using VJ8-0103).
   Press the RESET key and AID key simultaneously, and then release the RESET key first (when using VJ8-0141).
3. Operate the CH-UP key or the CH-DOWN key to designated EVR CH1.
4. Operate the DATA-CENT key, DATA-UP key and DATA-DOWN key so that the voltage at [VSUB] becomes the displayed voltage value ± 0.05 V.
5. Press the WRT key to store the adjusting data.

VSUB abbreviation	–	=	0	1	2	3	4	6	7	8	9	A	C	d	E	f
Voltage [V]	*5.0*	*5.25*	*5.5*	*5.75*	*6.0*	*6.25*	*6.5*	*6.75*	*7.0*	*7.25*	*7.5*	*7.75*	*8.0*	*8.25*	*8.5*	*8.75*
VSUB abbreviation	G	h	J	K	L	m	N	P	R	S	U	V	W	X	Y	Z
Voltage [V]	*9.0*	*9.25*	*9.5*	*9.75*	*10.0*	*10.25*	*10.5*	*10.75*	*11.0*	*11.25*	*11.5*	*11.75*	*12.0*	*12.25*	*12.5*	*12.75*

5. PLL Voltage Provisional Adjustment

[Connection]



[Adjustment]

Measuring Point	Measuring Equipment	Condition
TP903 TP901 (GND)	Digital voltmeter	CAMERA EE
	Subject	
	No designation	

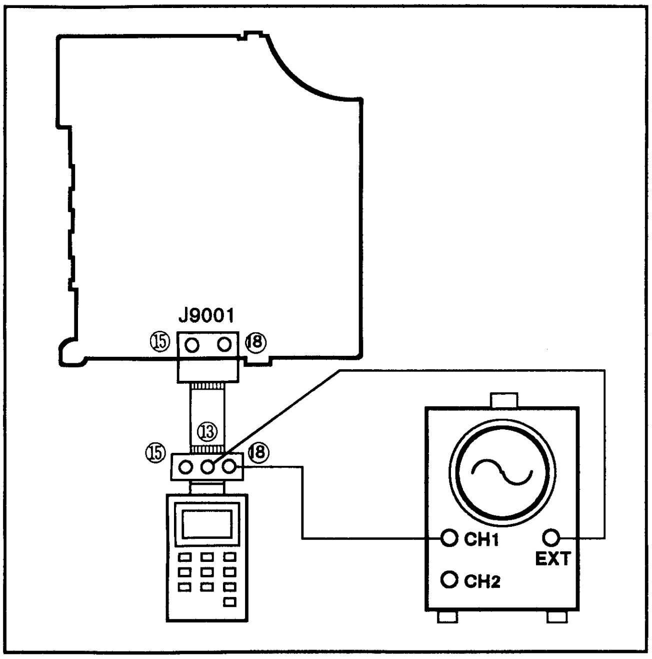
ADJ. Location	ADJ. Value
CT902	2.0 ~ 3.0 VDC

Adjusting method:

1. Adjust with CT902 to 2.0 ~ 3.0 VDC.

6. Auto Iris Level Adjustment

[Connection]



[Adjustment]

Measuring Point	Measuring Equipment	Condition
J9001⑱ [IRIS DET] J9001 ⑮ [GND]	Oscilloscope	CAMERA EE
	Subject	
	Gray scale (standard picture frame)	

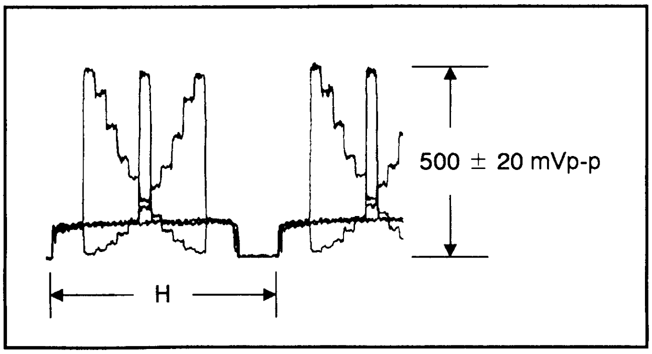
ADJ. Location	ADJ. Value
EVR CH3	500 ± 20 mV

Preparation:

- Short pin ⑧ and pin ⑮ of J9001.

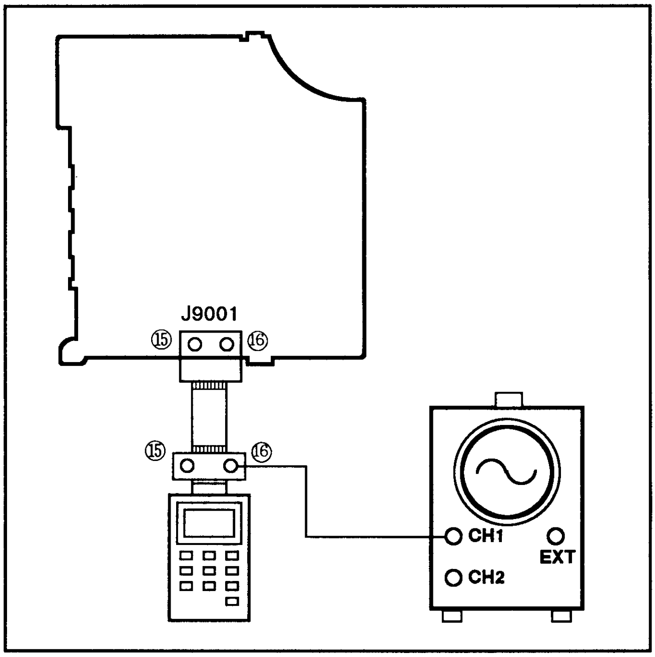
Adjusting method:

1. Press the RESET key once (when using VJ8-0103). Press the RESET key and AID key simultaneously, and then release the RESET key first (when using VJ8-0141).
2. Operate the CH-UP key or the CH-DOWN key to designated EVR CH3.
3. Operate the DATA-CENT key, DATA-UP key and DATA-DOWN key to set the [IRIS DET.] waveform level to 500 ± 20 mVp-p.



7. AGC Level Adjustment

[Connection]



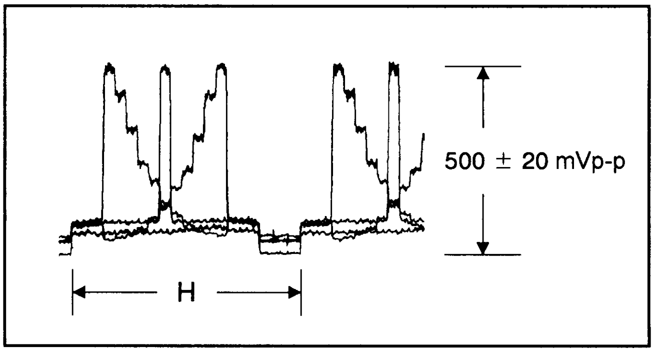
[Adjustment]

Measuring Point	Measuring Equipment	Condition
J9001 ⑯ [AGC. DET] J9001 ⑮ [GND]	Oscilloscope	CAMERA EE
	Subject	
	Gray scale (standard picture frame)	

ADJ. Location	ADJ. Value
EVR CH4	500 ± 20 mVp-p

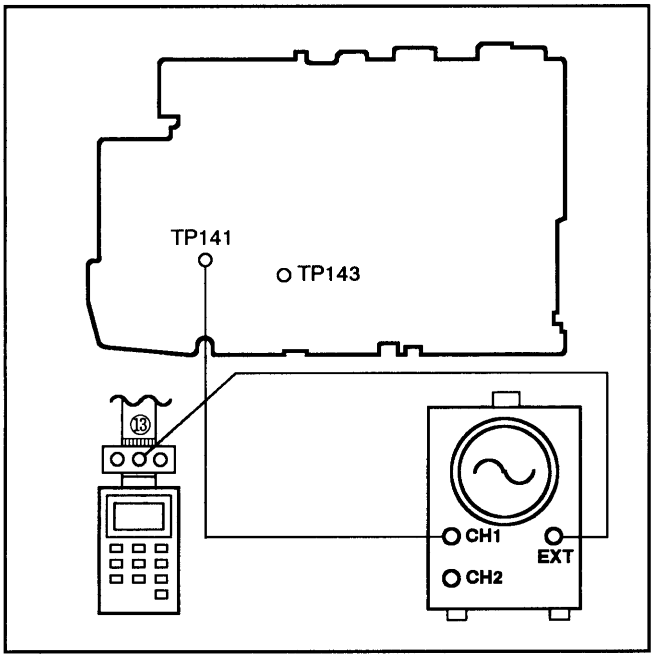
Preparation:
- Short pin ⑧ and pin ⑮ of J9001.

Adjusting method:
1. Press the RESET key once (when using VJ8-0103). Press the RESET key and AID key simultaneously, and then release the RESET key first (when using VJ8-0141).
2. Operate the CH-UP key or the CH-DOWN key to designate EVR CH4.
3. Operate the DATA-CENT key, DATA-UP key and DATA-DOWN key to set the [AGC.DET] waveform level to 500 ± 20 mVp-p.
4. Press the WRT key to store the adjusting data.



8. Y Level Adjustment

[Connection]



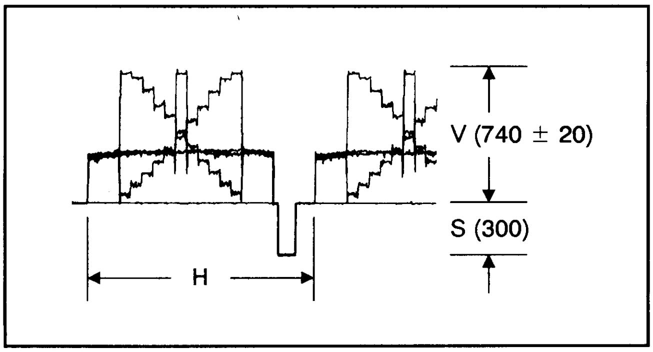
[Adjustment]

Measuring Point	Measuring Equipment	Condition
TP141 [CP1] (video output) TP143 (GND)	Oscilloscope	CAMERA EE
	Subject	
	Gray scale (standard picture frame)	

ADJ. Location	ADJ. Value
EVR CH5	S : V = 300 : (740 ± 20)

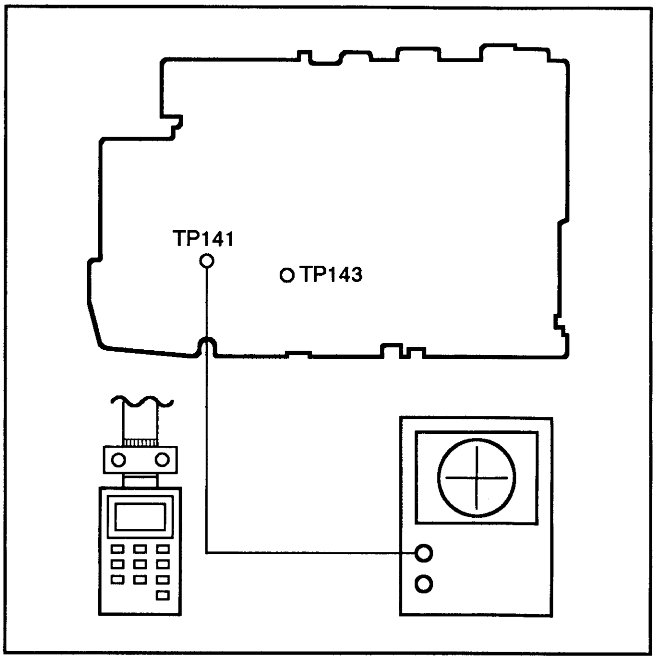
Preparation:
- Short pin ⑧ and pin ⑮ of J9001.

Adjusting method:
1. Press the RESET key once (when using VJ8-0141). Press the RESET key and AID key simultaneously, and then release the RESET key first (when using VJ8-0141).
2. Operate the CH-UP key or the CH-DOWN key to designate EVR CH5.
3. Operate the DATA-CENT key, DATA-UP key and DATA-DOWN key to set the S : V ratio to 300 : (740 ± 20).
4. Press the WRT key to store the adjusting data.



9. Chroma Balance Adjustment

[Connection]



[Adjustment]

Measuring Point	Measuring Equipment	Condition
TP141 [CP1] (video output) TP143 (GND)	Vectorscope	CAMERA EE
	Subject	
	Color bar (standard picture frame)	

ADJ. Location	ADJ. Value
EVR CH6	

Preparation:

- Short pin ⑧ and pin ⑮ of J9001.

Adjusting method:

1. Adjust the gain and phase of the vectorscope so that the burst becomes 75%.
2. Press the RESET key once (when using VJ8-0103).
   Press the RESET key and AID key simultaneously, and then release the RESET key first (when using VJ8-0141).
3. Operate the CH-UP key or the CH-DOWN key to designate EVR CH6.
4. Operate the DATA-CENT key, DATA-UP key and DATA-DOWN key to focus the luminance points which indicates color vectors respectively. (See page 5-10)

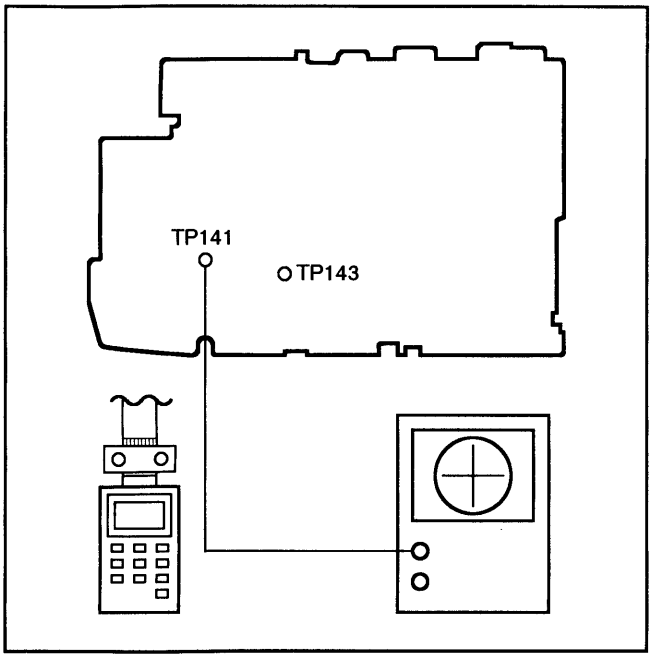
- Adjust especially paying attention to the red vector.

5. Press the WRT key to store the adjusting data.

EVR CH7	R – Y GAIN
EVR CH8	B – Y GAIN
EVR CH9	R – Y MATRIX
EVR CH10	B – Y MATRIX
EVR CH11	R CONTROL
EVR CH12	B CONTROL

10. Hue and Chroma Level Adjustment

[Connection]



[Adjustment]

Measuring Point	Measuring Equipment	Condition
TP141 [CP1] (video output) TP143 (GND)	Vectorscope	CAMERA EE
	Subject	
	Color bar (standard picture frame)	

ADJ. Location	ADJ. Value
EVR CH7, CH8, CH9, CH10	

Preparation:

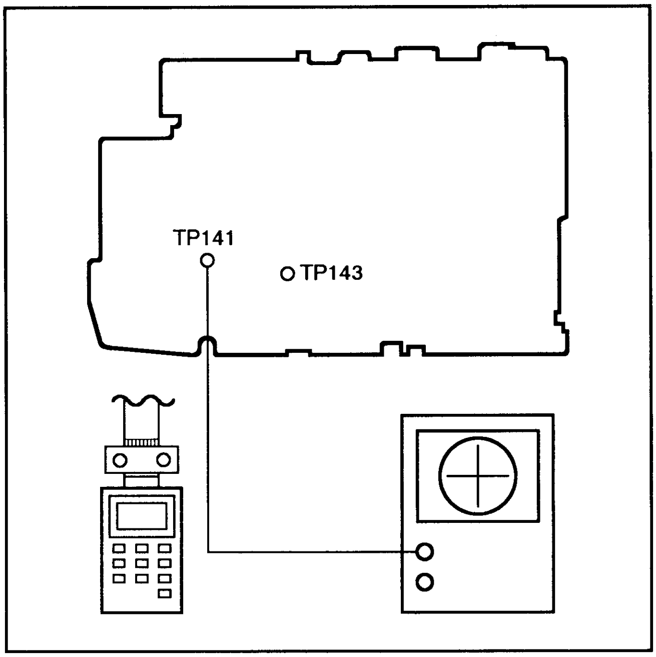
- Short pin ⑧ and pin ⑮ of J9001.

Adjusting method:

1. Press the RESET key once (when using VJ8-0103).
   Press the RESET key and AID key simultaneously, and then release the RESET key first (when using VJ8-0141).
2. Press the READ key once while pressing the AID key and read out all the EVR data.
3. Adjust the gain and phase of the vectorscope so that the burst becomes 75%.
4. Adjust temporarily the white balance. Designate CH11 and CH12 and match the white vector of the color bar with the center of the vectorscope. Press the WRT key pressing the AID key to store the temporary adjusting data.
5. Adjust the four EVRs of CH7, CH8, CH9 and CH10 alternately so that the luminance points which indicate red and yellow vectors are on the points as shown in the figure respectively. (See page 5-10)
6. Press the WRT key once while pressing the AID key to store the adjusting data.

11. 5,100K AWB Adjustment

[Connection]



[Adjustment]

Measuring Point	Measuring Equipment	Condition
TP141 [CP1] (video output) TP143 (GND)	Vectorscope Color viewer 5,100K	CAMERA EE
	Subject	
	All white pattern	

ADJ. Location	ADJ. Value
EVR CH11, CH12	

Preparation:

- Short pin ⑧ and pin ⑮ of J9001.

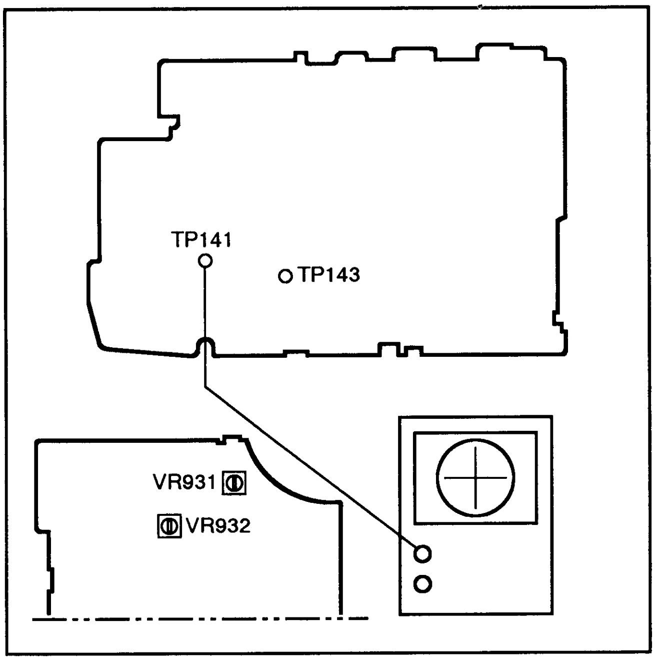
Adjusting method:

1. Set the gain so that the burst comes to the end of the vectorscope.
2. Press the RESET key once (when using VJ8-0103).
   Press the RESET key and AID key simultaneously, and then release the RESET key first (when using VJ8-0141).
3. Press the READ key once while pressing the AID key and read out all the EVR data.
4. Adjust two EVRs of CH11 and CH12 mutually so that the white vector displayed luminance point is positioned on the point as shown in the figure. (See page 5-10)
5. Press the WRT key once while pressing the AID key to store the adjusting data.

EVR CH7	R – Y GAIN
EVR CH8	B – Y GAIN
EVR CH9	R – Y MATRIX
EVR CH10	B – Y MATRIX
EVR CH11	R CONTROL
EVR CH12	B CONTROL

12. 2,800K AWB Adjustment

[Connection]



[Adjustment]

Measuring Point	Measuring Equipment	Condition
TP141 [CP1] (video output) TP143 (GND)	Vectorscope Color viewer 5,100K	CAMERA EE
	Subject	
	All white pattern (Place two LBA8s in front of the lens)	

ADJ. Location	ADJ. Value
VR931 (R. G) VR932 (B. G)	

Preparation:

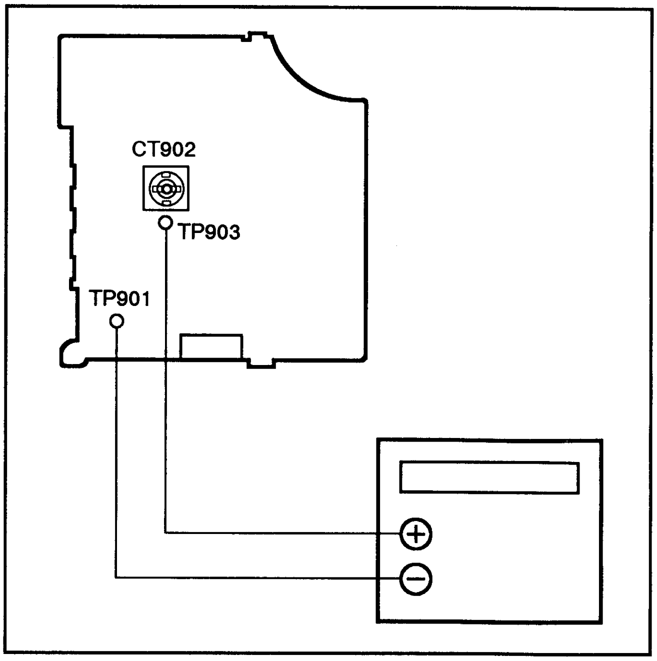
- Short pin ⑧, pin ⑨ and pin ⑮ of J9001.

Adjusting method:

1. Set the gain so that the burst comes to the end of the vectorscope.
2. Adjust with the VR931 (R. G) and VR932 (B. G) so that the white vector displayed luminance point is positioned on the point as shown in the figure. (See page 5-10)

13. PLL Voltage Adjustment

[Connection]


CT902
TP903
TP901
⊕
⊖

[Adjustment]

<table>
<tr><th>Measuring Point</th><th>Measuring Equipment</th><th>Condition</th></tr>
<tr><td rowspan="3">TP903
TP901 (GND)</td><td>Digital voltmeter</td><td>CAMERA EE</td></tr>
<tr><td colspan="2">Subject</td></tr>
<tr><td colspan="2">No designation</td></tr>
</table>

ADJ. Location	ADJ. Value
CT902	2.4 ± 0.1 VDC

Adjusting method:

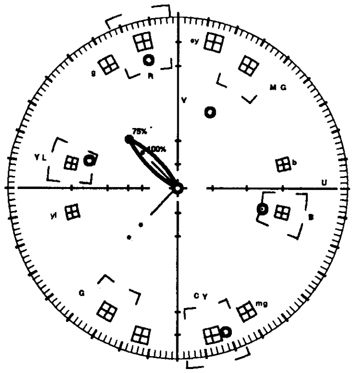
1. Turn CT902 so that the voltage of TP903 becomes 2.4 ± 0.1 VDC.

NOTE:

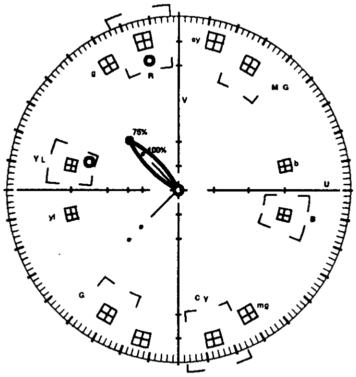
- Perform the adjustment especially after aging for more than ten minutes.

[Vectorscope display]

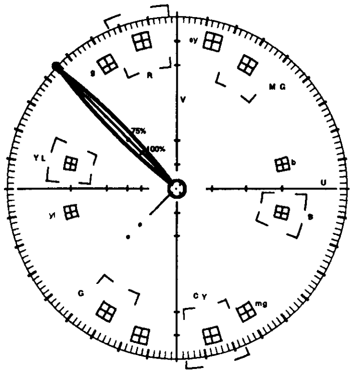
9. Chroma Balance Adjustment


R
MG
YL
B
G
CY
U
V
75%
100%

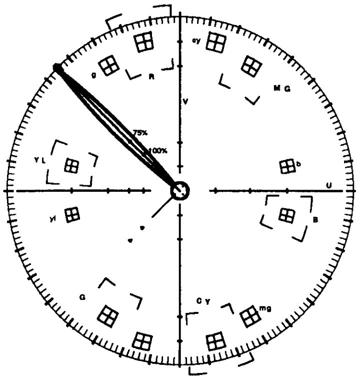
10. Hue and Chroma Level Adjustment


R
MG
YL
B
G
CY
U
V
75%
100%

11. 5,100K AWB Adjustment


R
MG
YL
B
G
CY
U
V
75%
100%

12. 2,800K AWB Adjustment


R
MG
YL
B
G
CY
U
V
75%
100%

2. VTR BLOCK ADJUSTMENT

2-1. EQUIPMENTS

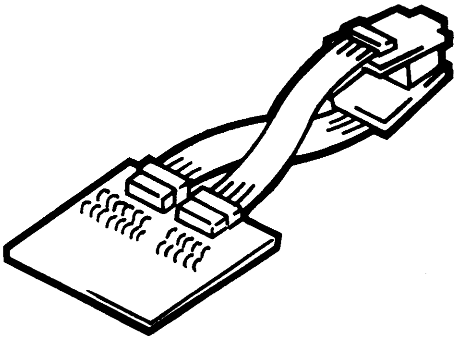
1. Monitor TV
2. Oscilloscope 2 phenomena, band 10 MHz or wider, delay mode. (Use 10 : 1 probe unless otherwise specified.)
3. Frequency counter, Universal counter
4. Pattern generator with video output terminal
   Note: One on which the chroma signal can be turned off)
5. Regulated power supply
6. Alignment tape
7. MP tape
8. Circuit board connecting tool
9. Alligator clip lead wire

2-2. ALIGNMENT TAPE

For video frequency characteristics adjustment (WR5-6C) : Part code; 96-7995-17
For operation check (WR5-5CSP) : Part code; 96-7995-47

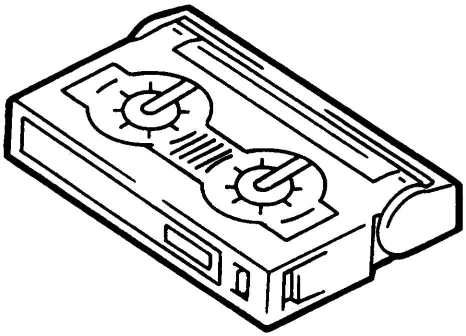
Name	Contents		Application
Video frequency characteristics (WR5-6C)	1. Recorded area 2. Recorded contents 3. Marker	Video RF sweep 0 to 10 MHz 1, 3.58, 5.5, 7 MHz	Frequency characteristics adjustment
Operation check (WR5-5CSP)	1. Recorded area 2. Recorded contents	Video, audio Color bar, monoscope (SP) Audio signal (FM), PCM audio signal	Operation check

J-9



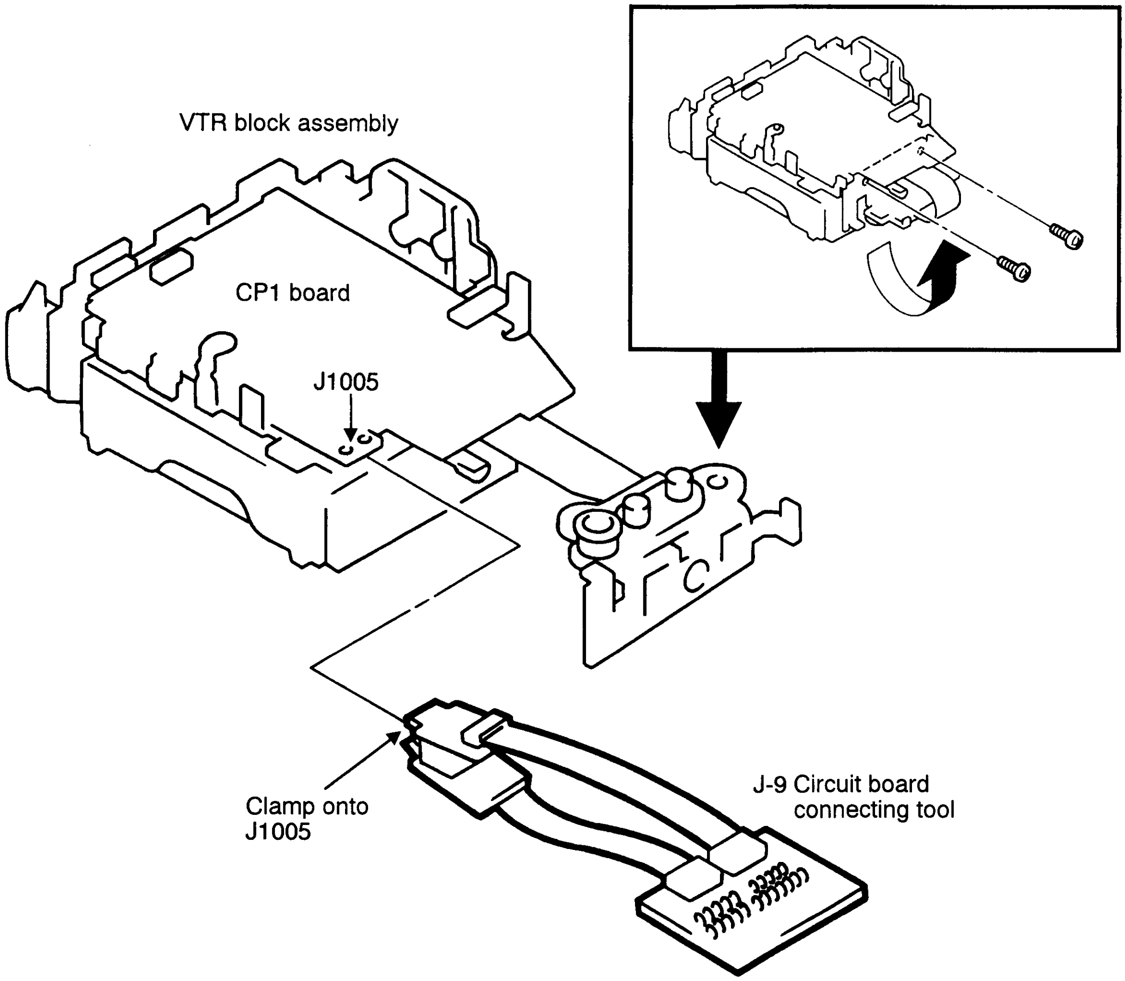
Circuit board connecting tool

J-14, J-15



WR5-6C, WR5-5CSP

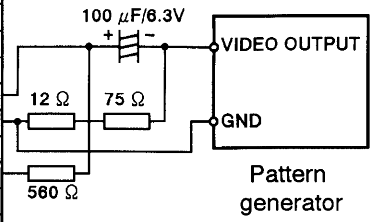
2-3. SETUP AND CONNECTION


VTR block assembly
CP1 board
J1005
Clamp onto J1005
J-9 Circuit board connecting tool

(Video circuit adjustment pattern generator input signal connecting method)

J1005

NOT USED	1
RF SW1	2
PB RF	3
RF SW2	4
NOT USED	5
CCD ON	6
CAM/LINE	7
NOT USED	8
C IN	9
Y, Y + C IN	10
GND	11
GND	12
S/S 5V	13
TEST	14
NOT USED	15
NOT USED	16
NOT USED	17
NOT USED	18
NOT USED	19
NOT USED	20
AUDIO IN	21
NOT USED	22


100 μF/6.3V
+
−
12 Ω
75 Ω
560 Ω
VIDEO OUTPUT
GND
Pattern generator

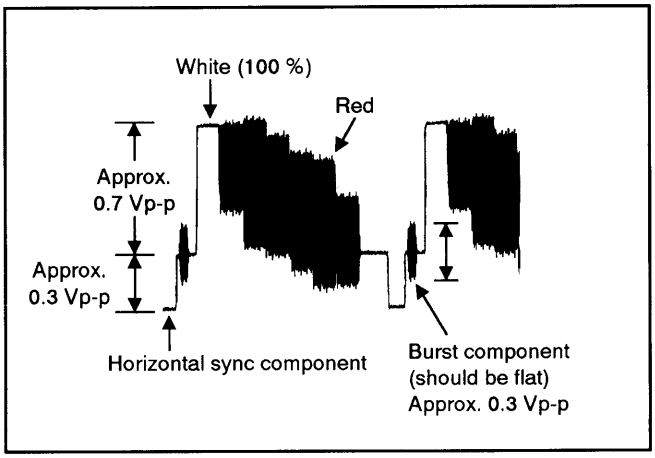
CP1 Board

2-4. SETUP FOR ADJUSTMENT

For adjustment of the VTR section, the video signal from the pattern generator is used as the adjustment signal.

Therefore, it is necessary that this video output signal is within the specified level.

Confirm that the amplitude of the sync signal of the video signal is about 0.3 Vp-p, that the amplitude of the video section is about 0.7 Vp-p, that the amplitude of the burst signal is about 0.3 Vp-p and is flat, and that the level ratio of the burst signal and the "red" signal is 0.30 : 0.66.



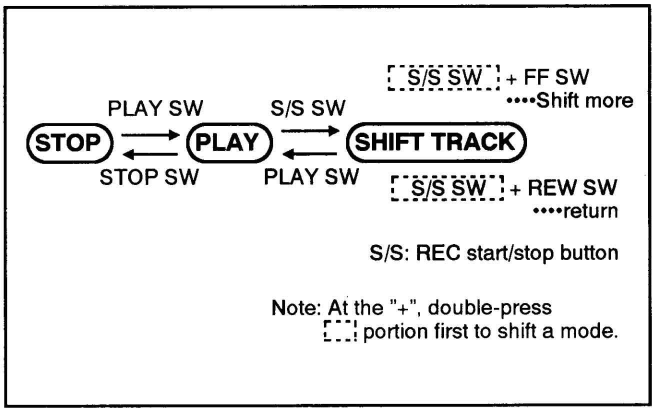
[ADJ mode]

ADJ mode can be entered by short-circuiting test pin ⑪ [GND] and pin ⑭ [TEST] of J1005.

However, when in CAMERA mode (POWER switch: "CAMERA", Stand-by switch: "STANDBY"), mode shifting cannot be made as shown below.

[ADJ function]

- Stops the reel rotation checking operation.
- Stops the discrimination of SP/LP mode in playback mode.



S/S: REC start/stop button

Note: At the "+", double-press [ ] portion first to shift a mode.

Note: SHIFT TRACK mode is used for Mechanism tracking adjustment.

2-5. ADJUSTMENT ITEM AND ORDER

[Servo/System Control Circuit]

1. Video center adjustment

[Video Circuit]

1. Playback frequency characteristics check
2. Flying erase check
3. Sync AGC adjustment
4. Comb filter phase adjustment
5. Comb filter level adjustment
6. PB line out Y level adjustment
7. PB Y level check
8. Y FM carrier frequency adjustment
9. Y FM deviation adjustment
10. REC Y recording current check
11. REC C recording current check
12. REC AFM recording current check
13. REC ATF recording current check

[Audio Circuit]

(For VM-EX220P)

1. f0 adjustment
2. Deviation check
3. Overall level check
4. Overall S/N check

(For VM-EX280P/370P)

1. Deviation adjustment
2. PB separation adjustment
3. REC separation adjustment
4. Overall level check
5. Overall S/N check

[Viewfinder Circuit]

(For VM-EX220P/280P)

1. Horizontal oscillation frequency adjustment
2. Viewfinder provisional adjustment
3. Centering adjustment
4. Horizontal size & viewfinder slant adjustment
5. Vertical size adjustment
6. Brightness adjustment
7. Focus adjustment

(For VM-EX370P)

1. LCD comon voltage adjustment
2. PLL lock adjustment
3. Brightness adjustment
4. Contrast adjustment
5. Gamma adjustment
6. Color gain adjustment

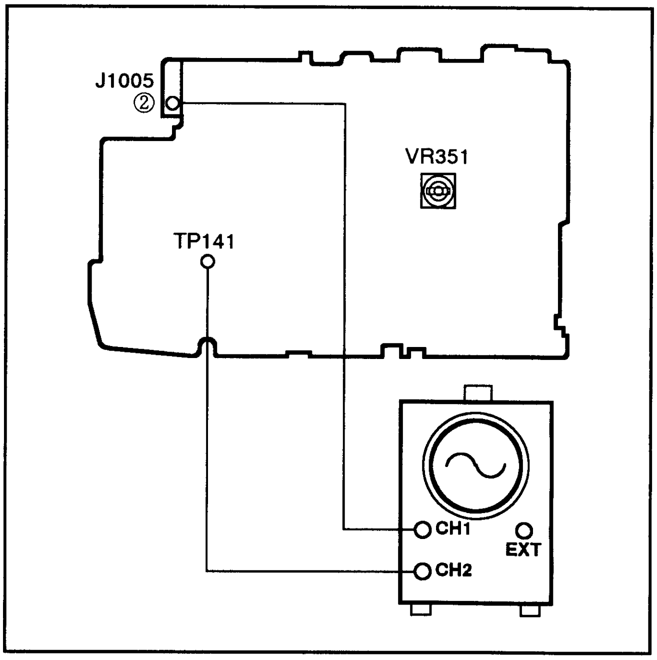
[Power Circuit]

1. DC-DC converter frequency adjustment
2. Video/audio power supply adjustment
3. Camera power supply adjustment

2-6. SERVO/SYSTEM CONTROL CIRCUIT

1. Video Center Adjustment

[Connection]



[Adjustment / Check]

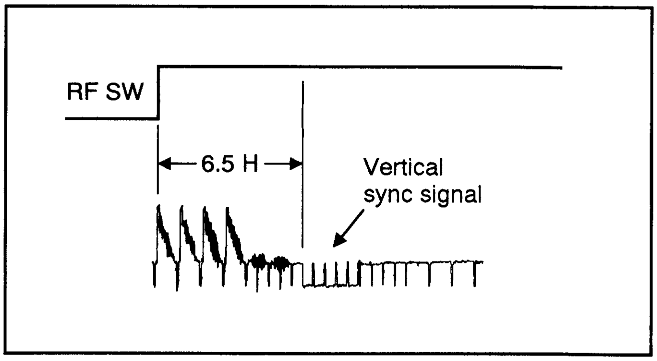
Measuring Point	Measuring Equipment	Condition
J1005②(CH1) TP141 (CH2) J1005⑪(GND)	Oscilloscope	Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check	
ADJ. Location	**ADJ. / Check Value**	
VR351	6.5 ± 0.3 H	

Preparation:

- POWER switch: "PLAYER"
- Short pin ⑪ and pin ⑭ of J1005.

Adjusting / Checking method:

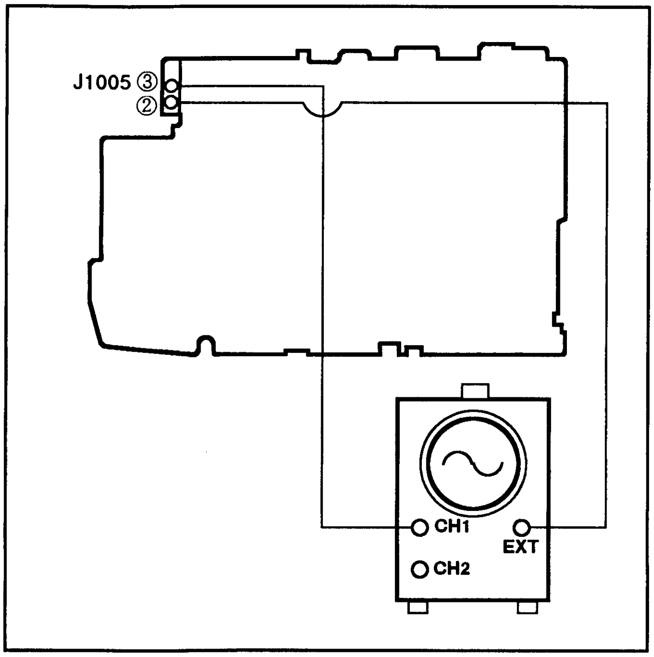
1. Adjust the vertical sync signal to 6.5 H from the rising edge (or falling edge) of the RF SW with VR351.



2-7. VIDEO CIRCUIT

1. Playback Frequency Characteristics Check

[Connection]



[Adjustment / Check]

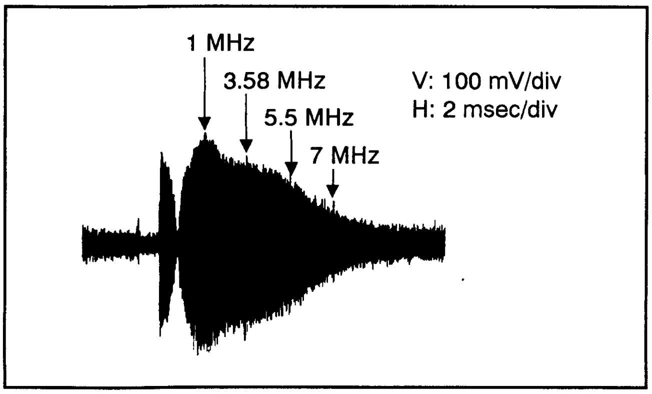
Measuring Point	Measuring Equipment	Condition
J1005③(CH1) J1005②(EXT) J1005⑪(GND)	Oscilloscope	Playback
	Input Signal / Alignment Tape	
	(WR5-6C): For frequency characteristics check	
ADJ. Location	**ADJ. / Check Value**	
	3.58 MHz : 5.5 MHz = 4 : 3	

Preparation:

- POWER switch: "PLAYER"
- Trigger slope [+]: CH-A, [–]: CH-B

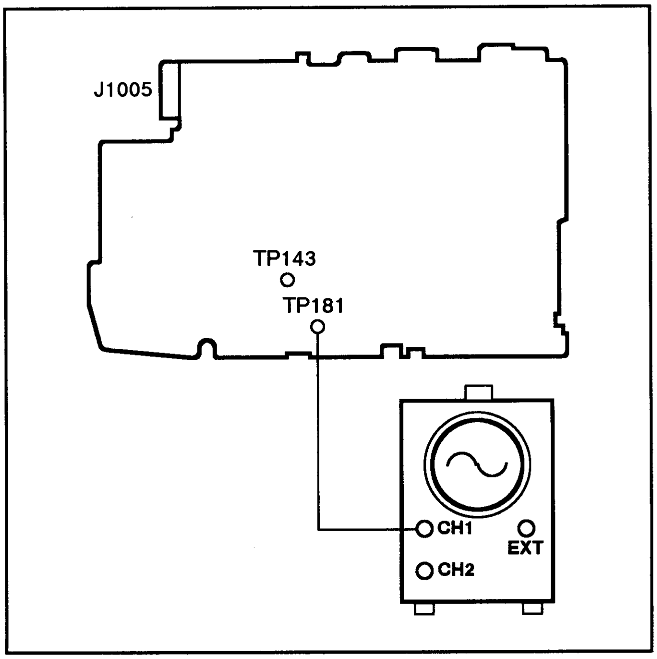
Adjusting / Checking method:

1. Confirm that the ratio between 3.58 MHz level and 5.5 MHz level is nearly 4 : 3.



2. Flying Erase Check

[Connection]

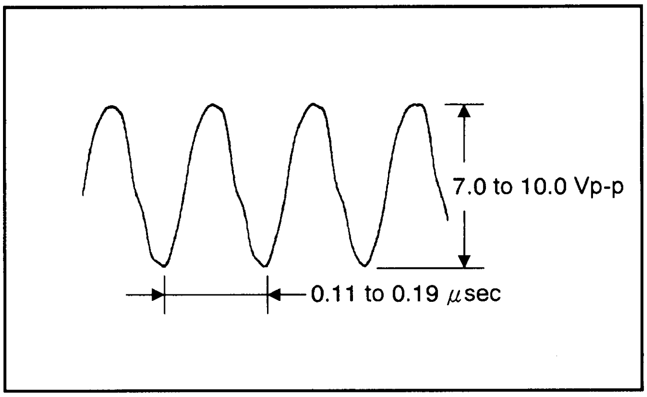

J1005
TP143
TP181
CH1
EXT
CH2

[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
TP181 (CH1) TP143 (GND)	Oscilloscope	Record
	Input Signal / Alignment Tape	
	Arbitrary	
ADJ. Location	**ADJ. / Check Value**	
	Oscillation frequency: 5.5 to 8.5 MHz Oscillation voltage: 7.0 to 10.0 Vp-p	

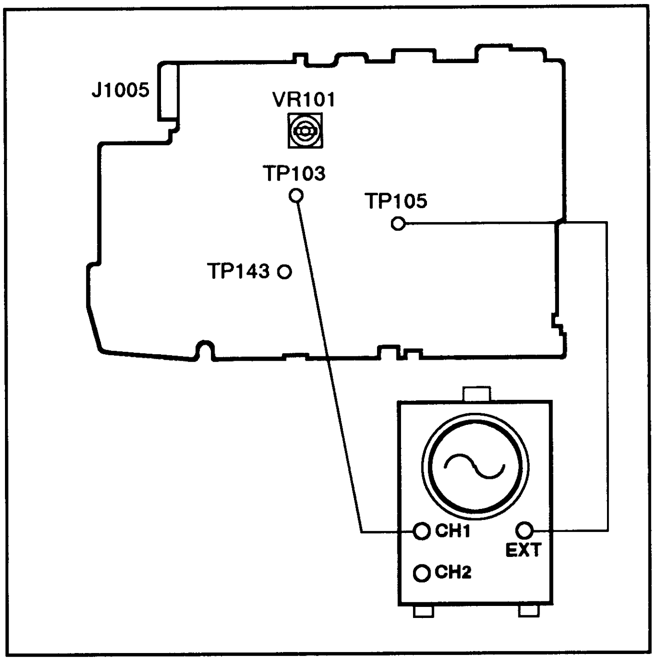
Preparation:
- POWER switch: "CAMERA"
- Stand-by switch: "STANDBY"
- Short pin ⑥, pin ⑪ and pin ⑭ of J1005.

Adjusting / Checking method:
1. Confirm that the oscillation frequency is 5.5 to 8.5 MHz, and that the oscillation voltage is 7.0 to 10.0 Vp-p.


7.0 to 10.0 Vp-p
0.11 to 0.19 μsec

3. SYNC AGC Adjustment

[Connection]

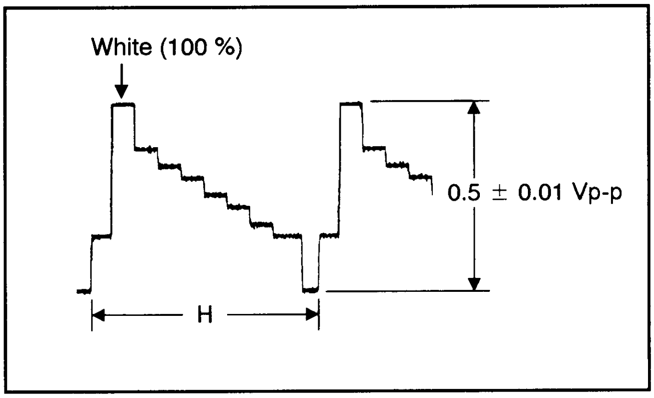

J1005
VR101
TP103
TP105
TP143
CH1
EXT
CH2

[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
TP103 (CH1) TP105 (EXT) TP143 (GND)	Oscilloscope	Stop
	Input Signal / Alignment Tape	
	Color bar (Y signal only)	
ADJ. Location	**ADJ. / Check Value**	
VR101	0.5 ± 0.01 Vp-p	

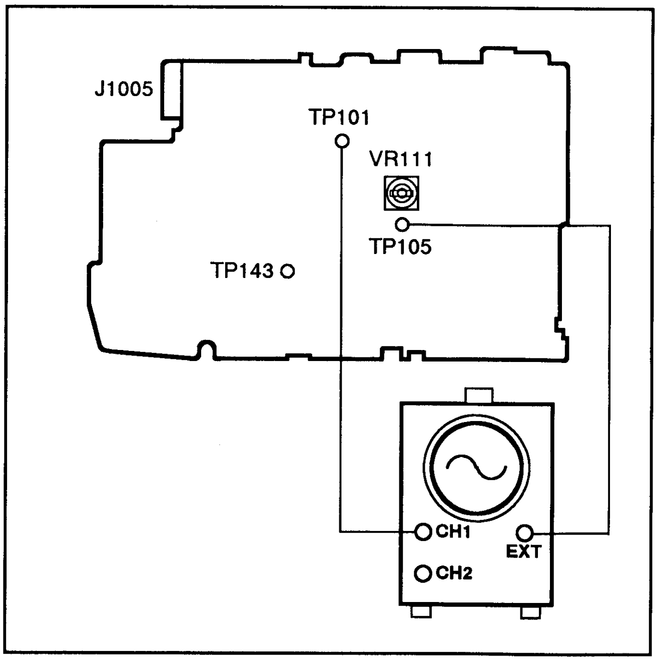
Preparation:
- POWER switch: "PLAYER"
- Short pin ⑥, pin ⑪ and pin ⑭ of J1005.

Adjusting / Checking method:
1. Adjust with VR101 to 0.5 ± 0.01 Vp-p.


White (100 %)
0.5 ± 0.01 Vp-p
H

4. Comb Filter Phase Adjustment

[Connection]



[Adjustment / Check]

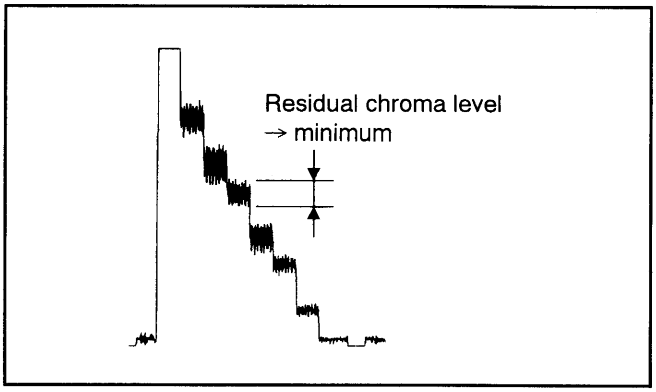
Measuring Point	Measuring Equipment	Condition
TP101 (CH1) TP105 (EXT) TP143 (GND)	Oscilloscope	Stop
	Input Signal / Alignment Tape	
	Color bar	
ADJ. Location	**ADJ. / Check Value**	
VR111		

Preparation:

- POWER switch: "PLAYER"
- Short pin ⑥, pin ⑪ and pin ⑭ of J1005.

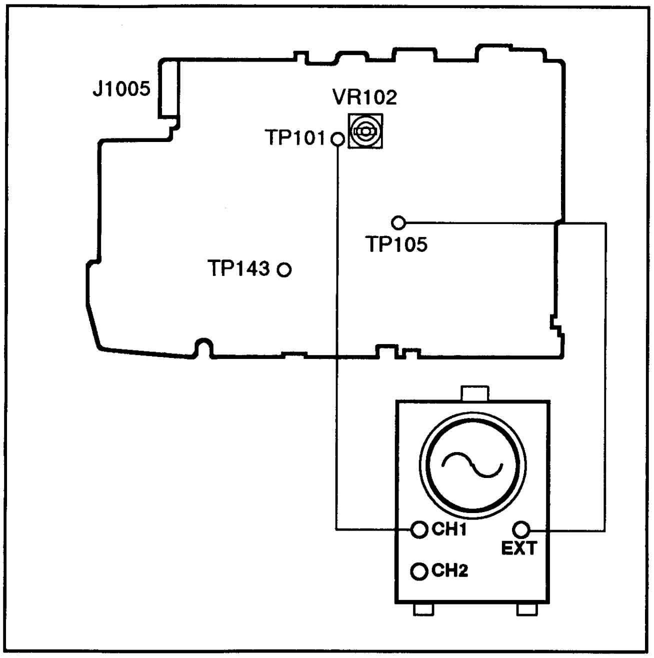
Adjusting / Checking method:

1. Adjust with VR111 so that the amplitude (residual chroma level) of green becomes minimum.



5. Comb Filter Level Adjustment

[Connection]



[Adjustment / Check]

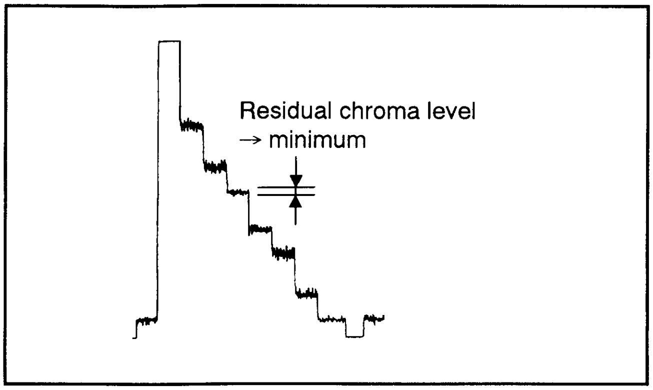
Measuring Point	Measuring Equipment	Condition
TP101 (CH1) TP105 (EXT) TP143 (GND)	Oscilloscope	Stop
	Input Signal / Alignment Tape	
	Color bar	
ADJ. Location	**ADJ. / Check Value**	
VR102		

Preparation:

- POWER switch: "PLAYER"
- Short pin ⑥, pin ⑪ and pin ⑭ of J1005.

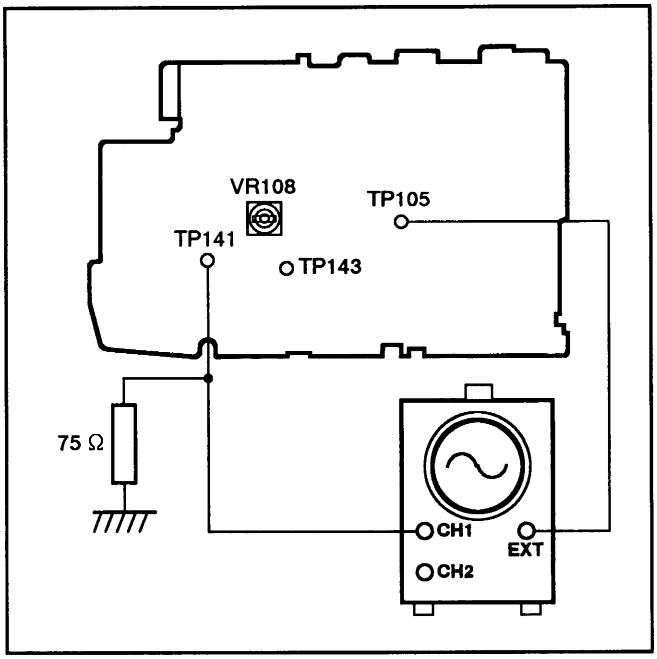
Adjusting / Checking method:

1. Adjust with VR102 so that the amplitude (residual chroma level) of greeen becomes minimum (below 25 mVp-p).



6. PB LINE OUT Y Level Adjustment

[Connection]



[Adjustment / Check]

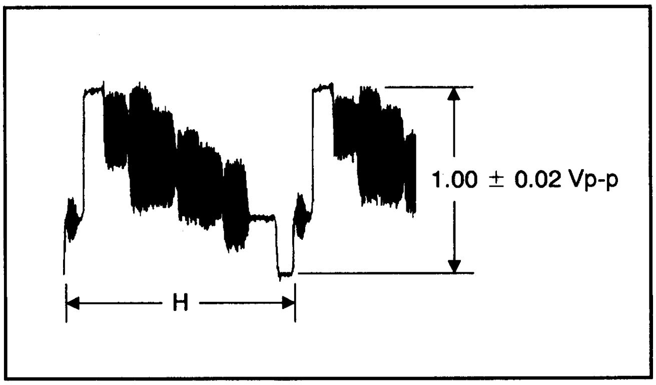
Measuring Point	Measuring Equipment	Condition
TP141 (CH1) TP105 (EXT) TP143 (GND)	Oscilloscope	Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check, color bar portion	
ADJ. Location	**ADJ. / Check Value**	
VR108	1.00 ± 0.02 Vp-p	

Preparation:

- POWER switch: "PLAYER"

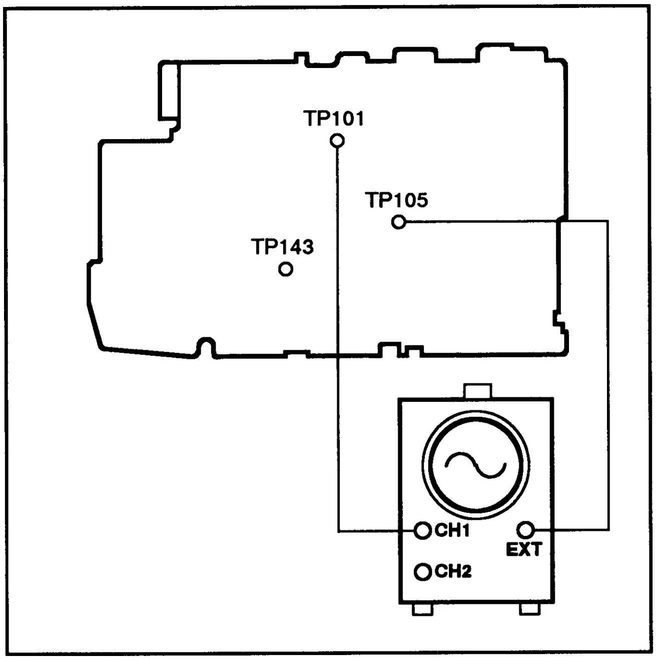
Adjusting / Checking method:

1. Adjust with VR108 to 1.00 ± 0.02 Vp-p.



7. PB Y Level Check

[Connection]



[Adjustment / Check]

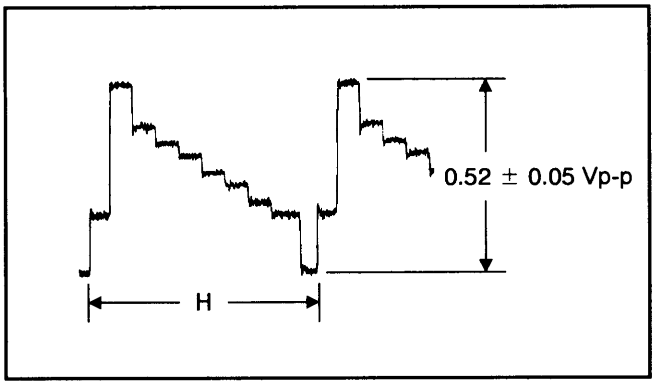
Measuring Point	Measuring Equipment	Condition
TP101 (CH1) TP105 (EXT) TP143 (GND)	Oscilloscope	Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check, color bar portion	
ADJ. Location	**ADJ. / Check Value**	
	0.52 ± 0.05 Vp-p	

Preparation:

- POWER switch: "PLAYER"

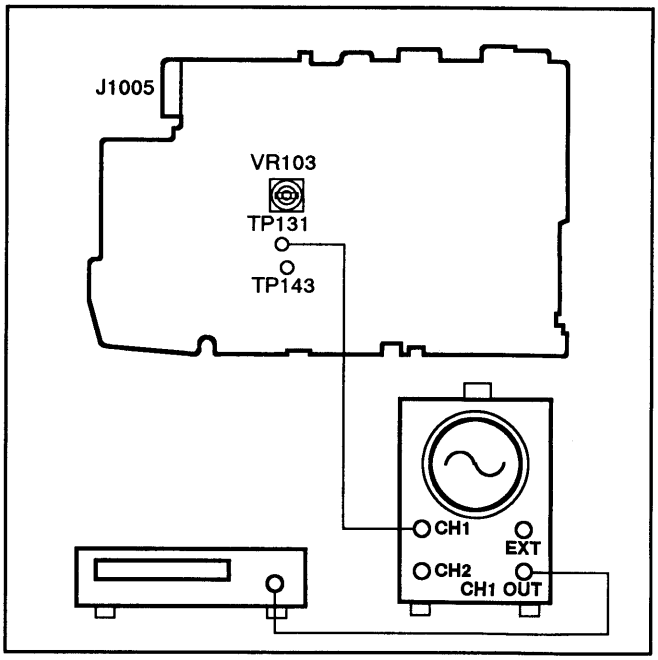
Adjusting / Checking method:

1. Confirm that the playback level is 0.52 ± 0.05 Vp-p.



8. Y FM Carrier Frequency Adjustment

[Connection]

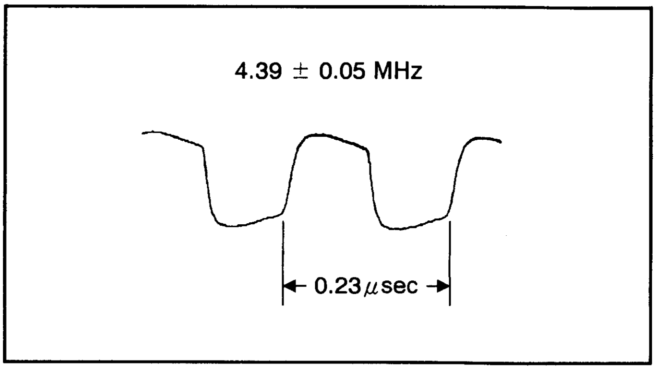


[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
TP131 (CH1) TP143 (GND)	Oscilloscope Frequency counter	Record
	Input Signal / Alignment Tape	
	No signal	
ADJ. Location	**ADJ. / Check Value**	
VR103	4.39 ± 0.05 MHz	

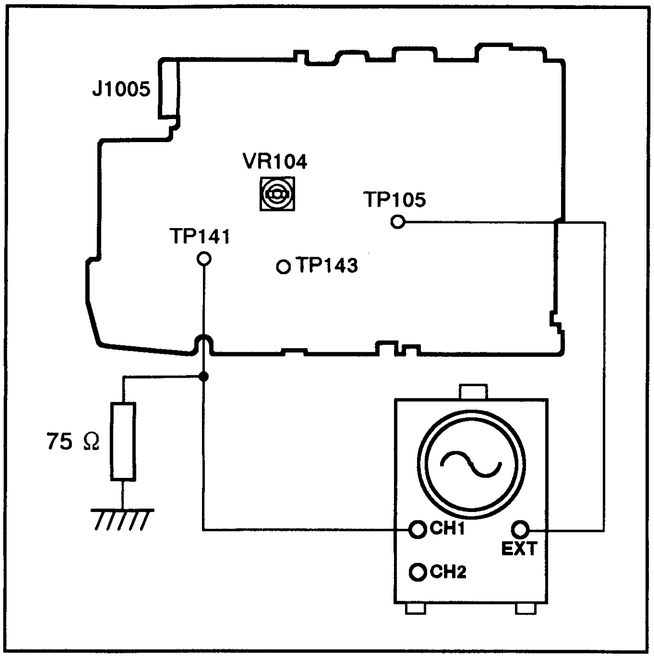
Preparation:
- POWER switch: "CAMERA"
- Stand-by switch: "STANDBY"
- Short pin ⑥, pin ⑪ and pin ⑭ of J1005.

Adjusting / Checking method:
1. Adjust with VR103 to 4.39 ± 0.05 MHz.
- If adjusted to 4.39 MHz in no signal state, the frequency of sync tip is set to 4.20 MHz when there is a signal.



9. Y FM Deviation Adjustment

[Connection]

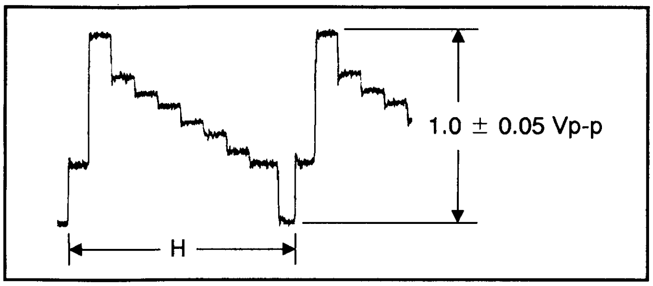


[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
TP141 (CH1) TP105 (EXT) TP143 (GND)	Oscilloscope MP type tape	Record and Playback
	Input Signal / Alignment Tape	
	Color bar (Y signal only)	
ADJ. Location	**ADJ. / Check Value**	
VR104	1.00 ± 0.05 Vp-p	

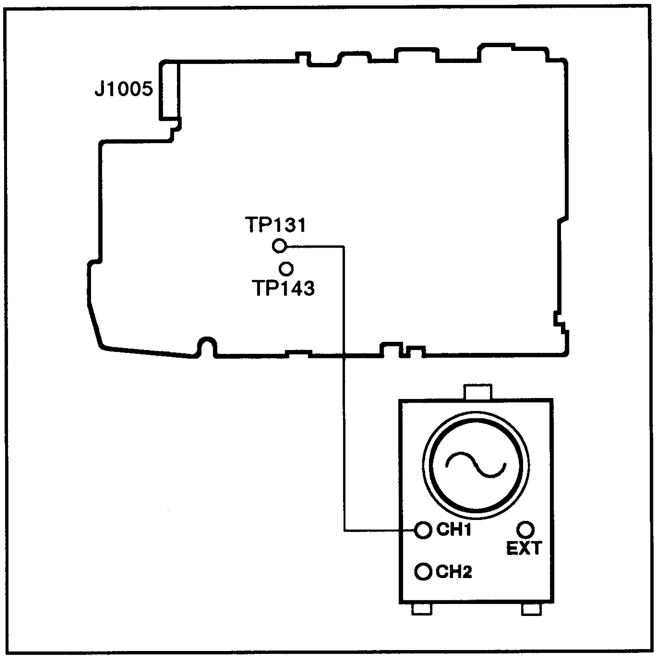
Preparation:
- Stand-by switch: "STANDBY"/POWER switch: "CAMERA" and "PLAYER" / Short pin ⑥, pin ⑪ and pin ⑭ of J1005.
- An AV cord should be connected, and the video output terminal should be terminated at 75 Ω .

Adjusting / Checking method:
1. Record the color bar Y signal.
2. Play back the recorded signal.
3. Check the playback level.
   It should be within 1.00 ± 0.05 Vp-p.
4. When the level does not meet the specification, turn VR104 as follows, and repeat 1. to 3.
   Counterclockwise (↶): When larger than specified value
   Clockwise (↷): When smaller than specified value



10. REC Y Recording Current Check

[Connection]

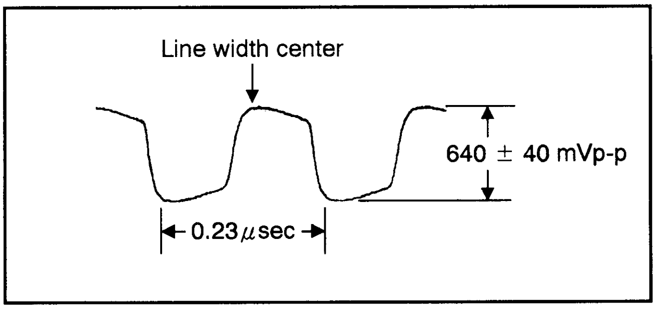

J1005
TP131
TP143
CH1
EXT
CH2

[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
TP131 (CH1) TP143 (GND)	Oscilloscope MP type tape	Record
	Input Signal / Alignment Tape	
	No signal	
ADJ. Location	**ADJ. / Check Value**	
	640 ± 40 mVp-p	

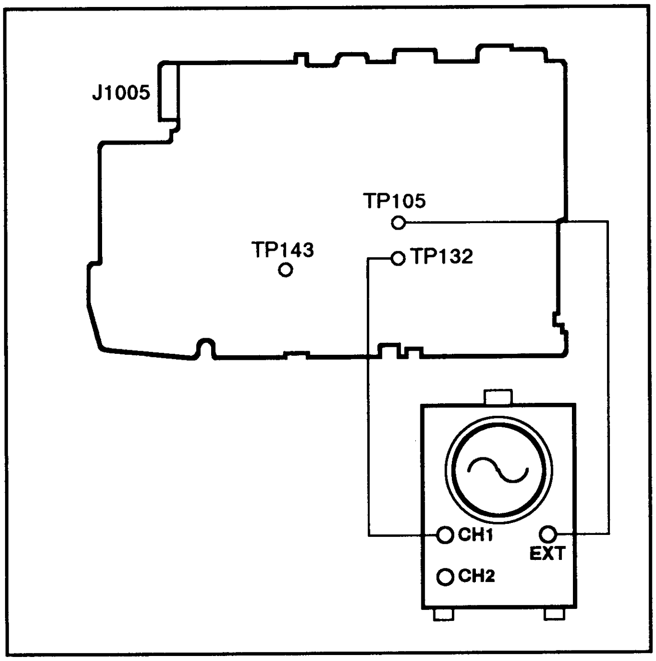
Preparation:
- POWER switch: "CAMERA"
- Stand-by switch: "STANDBY"
- Short pin ⑥, pin ⑪ and pin ⑭ of J1005.

Adjusting / Checking method:
1. Confirm that the recording level is 640 ± 40 mVp-p.


Line width center
640 ± 40 mVp-p
0.23μsec

11. REC C Recording Current Check

[Connection]

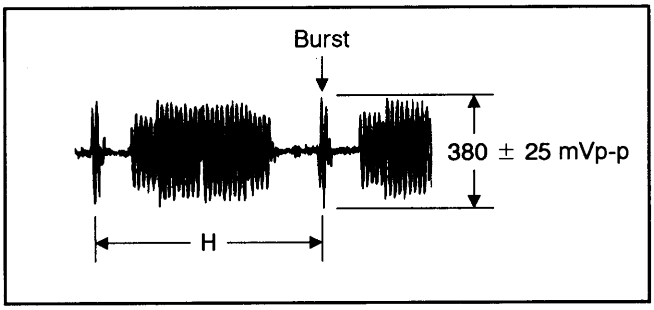

J1005
TP105
TP143
TP132
CH1
EXT
CH2

[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
TP132 (CH1) TP105 (EXT) TP143 (GND)	Oscilloscope MP type tape	Record
	Input Signal / Alignment Tape	
	Color bar	
ADJ. Location	**ADJ. / Check Value**	
	380 ± 25 mVp-p	

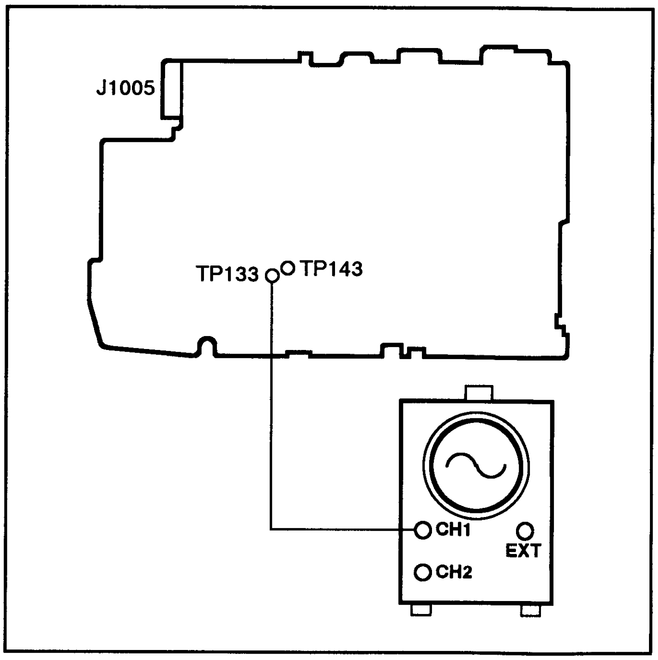
Preparation:
- POWER switch: "CAMERA"
- Stand-by switch: "STANDBY"
- Short pin ⑥, pin ⑪ and pin ⑭ of J1005.

Adjusting / Checking method:
1. Confirm that the burst level is 380 ± 25 mVp-p.


Burst
380 ± 25 mVp-p
H

12. REC AFM Recording Current Check

[Connection]



[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
TP133 (CH1) TP143 (GND)	Oscilloscope MP type tape	Record
	Input Signal / Alignment Tape	
	Color bar (Audio input: No signal)	
ADJ. Location	**ADJ. / Check Value**	
	160 ± 15 mVp-p	

Preparation:

- POWER switch: "CAMERA"
- Stand-by switch: "STANDBY"
- Short pin ⑥, pin ⑪ and pin ⑭ of J1005.

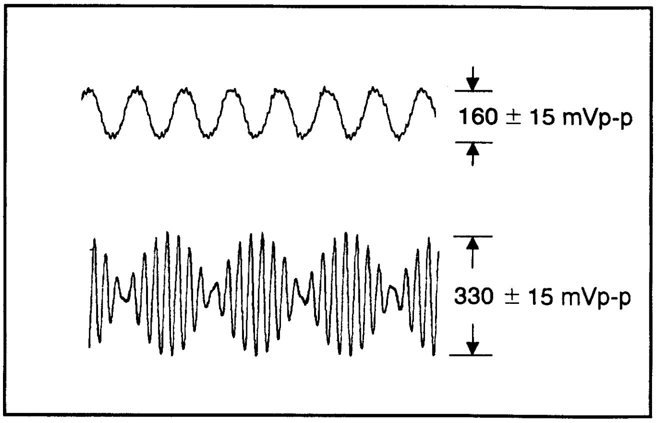
Adjusting / Checking method:

[For VM-EX220P]

1. Confirm that the oscillation voltage is 160 ± 15 mVp-p.

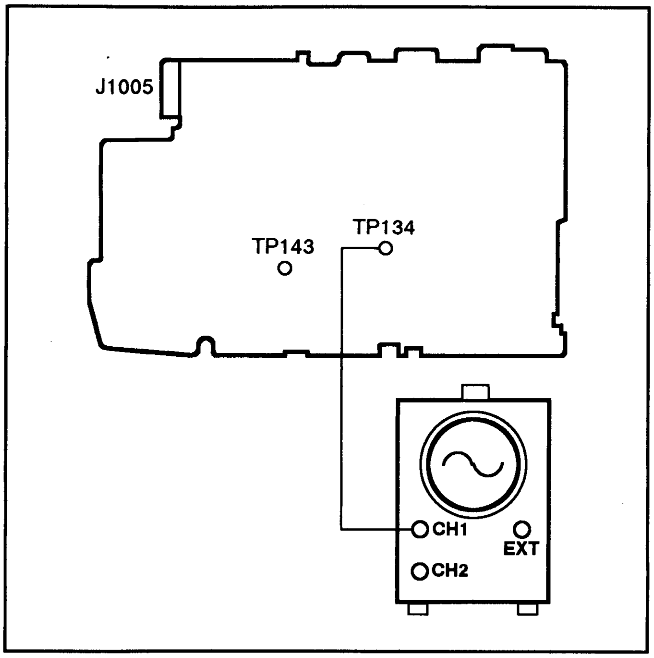
[For VM-EX280P/370P]

1. Confirm that the oscillation voltage is 330 ± 15 mVp-p.



13. REC ATF Recording Current Check

[Connection]



[Adjustment / Check]

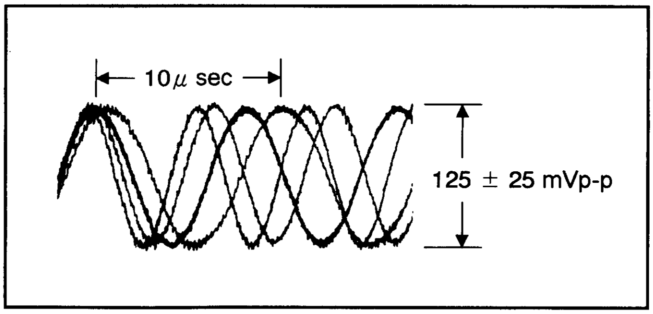
Measuring Point	Measuring Equipment	Condition
TP134 (CH1) TP143 (GND)	Oscilloscope MP type tape	Record
	Input Signal / Alignment Tape	
	Color bar	
ADJ. Location	**ADJ. / Check Value**	
	125 ± 25 mVp-p	

Preparation:

- POWER switch: "CAMERA"
- Stand-by switch: "STANDBY"
- Short pin ⑥, pin ⑪ and pin ⑭ of J1005.

Adjusting / Checking method:

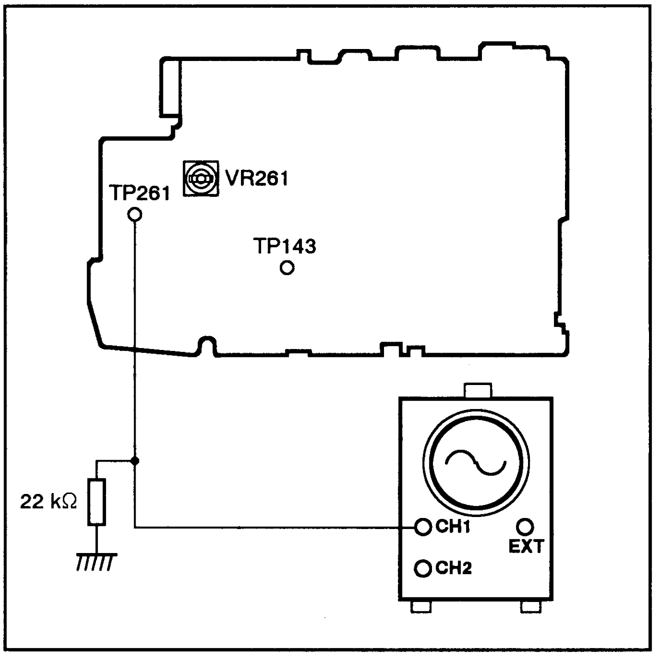
1. Confirm that the oscillation voltage is 125 ± 25 mVp-p.



2-8. AUDIO CIRCUIT (For VM-EX220P)

1. f_o Adjustment

[Connection]



[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
TP261 (CH1) TP143 (GND)	Oscilloscope	Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check Audio input: No signal	
ADJ. Location	**ADJ. / Check Value**	
VR201		

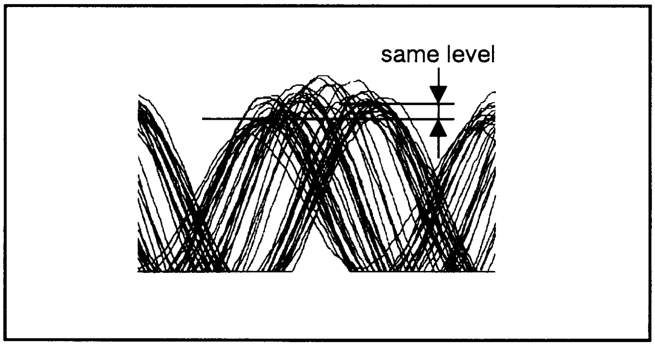
Preparation:

- POWER switch: "PLAYER"

Adjusting / Checking method:

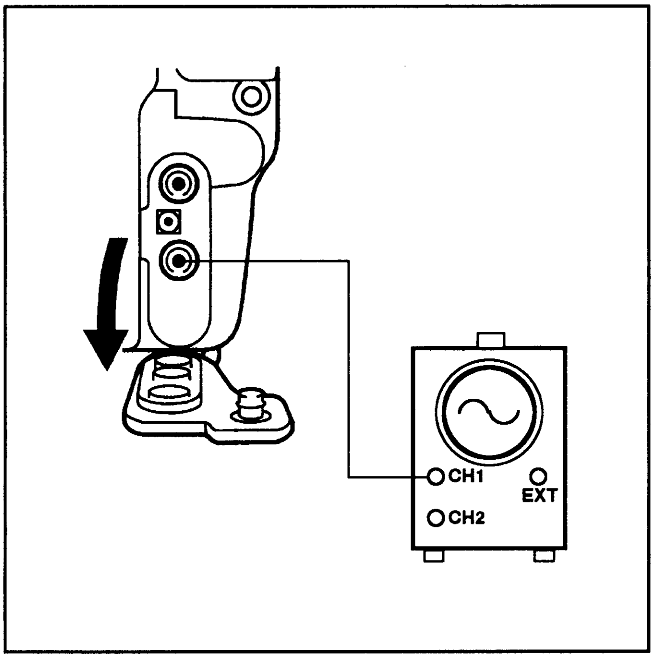
1. Set the oscilloscope to AC 50 mV/div, 0.5 μsec/div.
2. Adjust with VR201 so that playback FM waveform has the same amplitude in high frequency range and low frequency range.

- Expand sweep of the time base to 0.1 μ sec/div.



2. Deviation Check

[Connection]



[Adjustment / Check]

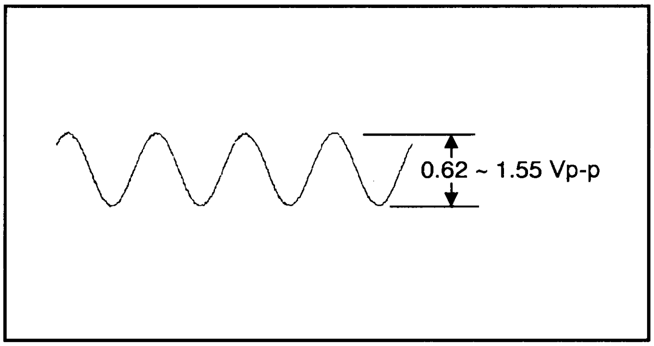
Measuring Point	Measuring Equipment	Condition
Audio terminal	Oscilloscope	Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check	
ADJ. Location	**ADJ. / Check Value**	
	0.62 ~ 1.55 Vp-p	

Preparation:

- POWER switch: "PLAYER"

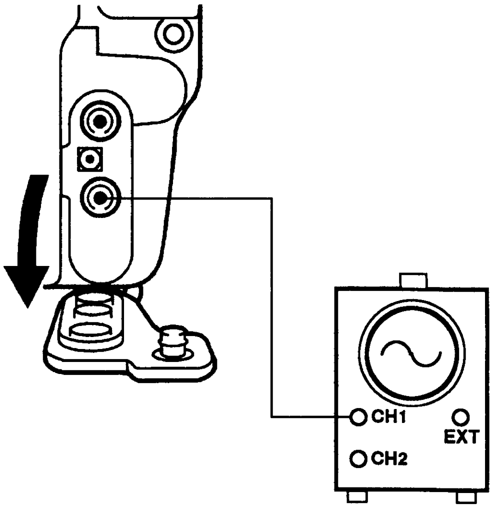
Adjusting / Checking method:

1. Confirm that the audio output level is 0.62 ~ 1.55 Vp-p.



3. Overall Level Check

[Connection]



[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
Audio terminal	Oscilloscope MP type tape	Record and playback (SP)
	Input Signal / Alignment Tape	
	EXT MIC input (CN294): 1 kHz, −66.0 dBs	
ADJ. Location	**ADJ. / Check Value**	
	0.62 ~ 1.55 Vp-p	

Preparation:

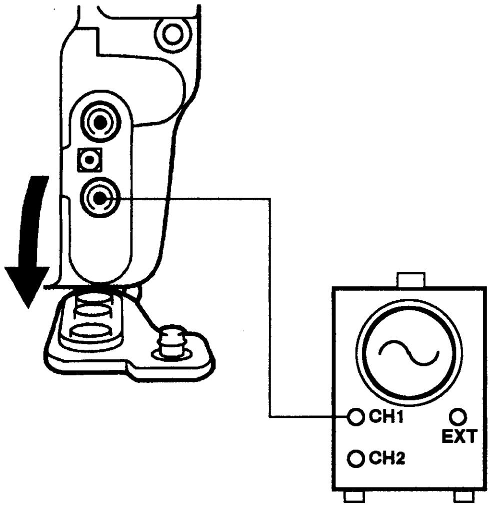
- Stand-by switch: "STANDBY"
- POWER switch: "CAMERA" and "PLAYER"

Adjusting / Checking method:

1. Record.
2. Play back the recorded portion.
3. Confirm that the audio output level is 0.62 ~ 1.55 Vp-p.

4. Overall S / N Check

[Connection]



[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
Audio terminal	Oscilloscope MP type tape	Record and playback (SP)
	Input Signal / Alignment Tape	
	Short-circuited at the EXT MIC input (CN294): No signal	
ADJ. Location	**ADJ. / Check Value**	
	Less than 6.9 mVp-p	

Preparation:

- Stand-by switch: "STANDBY"
- POWER switch: "CAMERA" and "PLAYER"

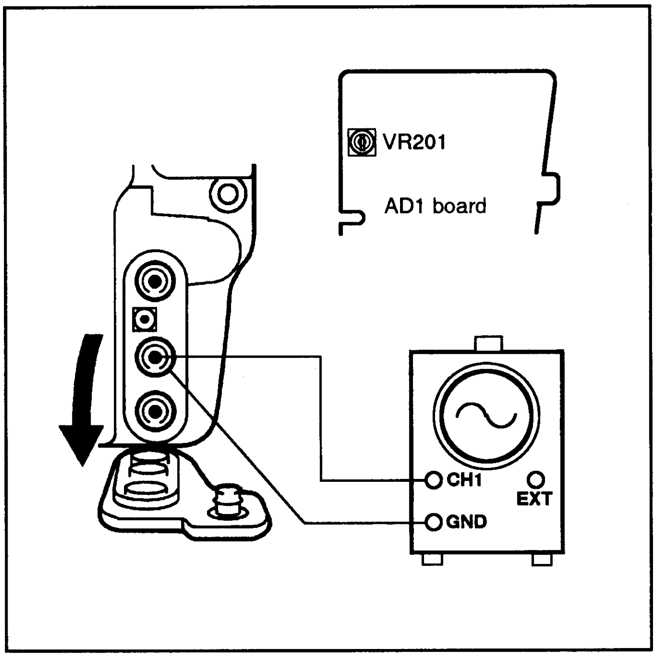
Adjusting / Checking method:

1. Record then play back the recorded portion.
2. Confirm that the residual audio output level is less than 6.9 mVp-p (JIS A audio corrections).
- Since the audio input level is extreme low, be careful of noise such as inductive hum, etc.

2-9. AUDIO CIRCUIT (For VM-EX280P/370P)

1. Deviation Adjustment

[Connection]



[Adjustment / Check]

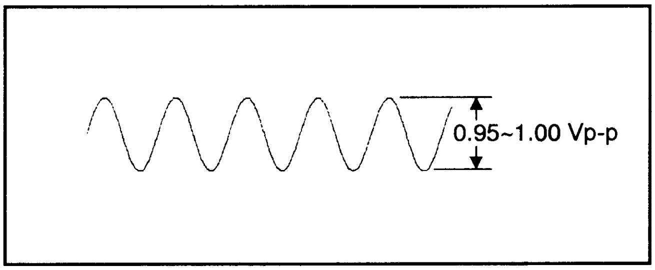
Measuring Point	Measuring Equipment	Condition
Audio output (left) terminal	Oscilloscope	Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check (monaural)	
ADJ. Location	**ADJ. / Check Value**	
VR201	0.95 ~ 1.00 Vp-p (− 7 ± 0.2 dBs)	

Preparation:

- POWER switch: "PLAYER"

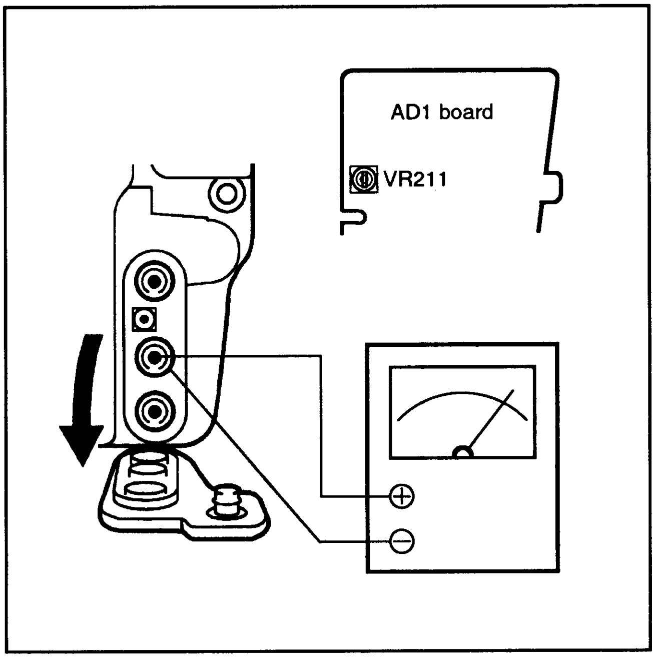
Adjusting / Checking method:

1. Adjust with VR201 so that the output level is 0.95 ~ 1.00 Vp-p (−7 ± 0.2 dBs).



2. PB Separation Adjustment

[Connection]



[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
Audio output (left) terminal	Distortion meter	Playback
	Input Signal / Alignment Tape	
	(WR5-9CS): For operation check (stereo)	
ADJ. Location	**ADJ. / Check Value**	
VR211	Less than 3 %	

Preparation:

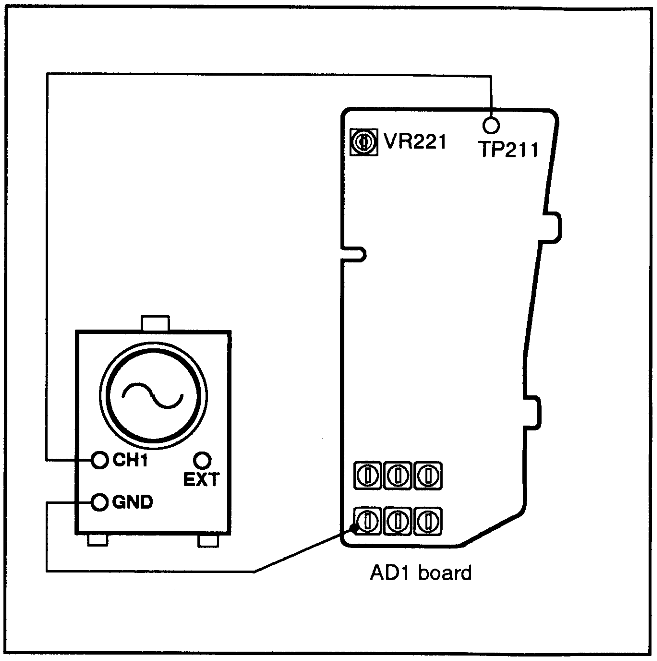
- POWER switch: "PLAYER"

Adjusting / Checking method:

1. Adjust with VR211 so that the distortion ratio of the audio output signal is less than 3 %.

3. REC Separation Adjusdtment

[Connection]



[Adjustment / Check]

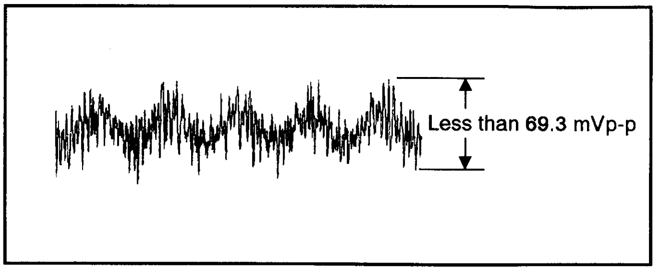
Measuring Point	Measuring Equipment	Condition
TP211	Oscilloscope	Record
	Input Signal / Alignment Tape	
	External microphone jack: 1 kHz, − 66.0 dBs (L/R in-phase)	
ADJ. Location	**ADJ. / Check Value**	
VR221	Less than 69.3 mVp-p (− 30 dBs/JIS A)	

Preparation:

- Stand-by switch: "STANDBY"
- POWER switch: "CAMERA"

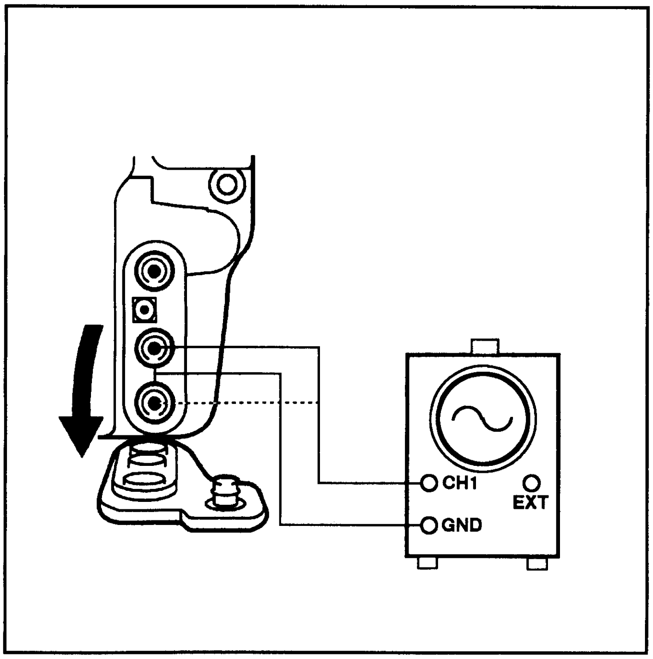
Adjusting / Checking method:

1. Adjust with VR221 so that the audio output level is less than 69.3 mVp-p (- 30 dBs/JIS A audio corrections).



4. Overall Level Check

[Connection]



[Adjustment / Check]

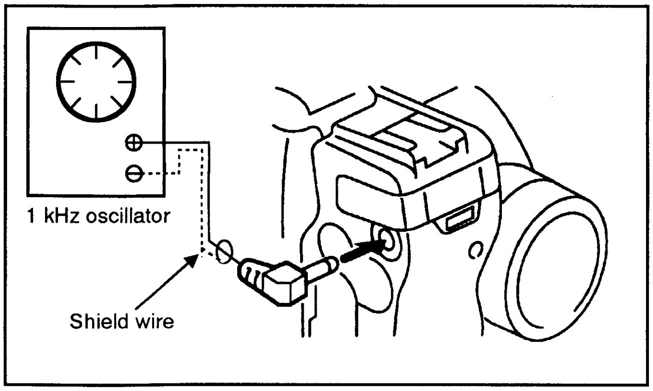
Measuring Point	Measuring Equipment	Condition
Audio output terminal	Oscilloscope MP type tape	Record and playback (SP)
	Input Signal / Alignment Tape	
	External microphone jack: 1 kHz, − 66.0 dBs (L/R in-phase)	
ADJ. Location	**ADJ. / Check Value**	
	0.62 ~ 1.55 Vp-p (− 7 ± 4 dBs) less than 3%	

Preparation:

- Stand-by switch: "STANDBY"
- POWER switch: "CAMERA" and "PLAYER"

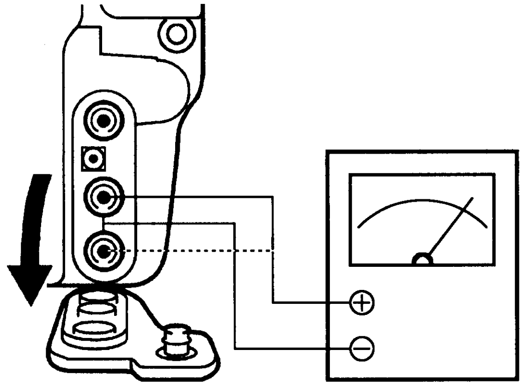
Adjusting / Checking method:

1. Record.
2. Play back the recorded portion.
3. Confirm that the audio output level is 0.62 ~ 1.55 mVp-p (-7 ± 4 dBs) and the distortion ratio is less than 3%.



5. Overall S/N Check

[Connection]



[Adjustment / Check]

<table>
<tr><th>Measuring Point</th><th>Measuring Equipment</th><th>Condition</th></tr>
<tr><td rowspan="3">Audio output terminal</td><td>Audio level meter
MP type tape</td><td>Record and playback (SP)</td></tr>
<tr><th colspan="2">Input Signal / Alignment Tape</th></tr>
<tr><td colspan="2">Short-circuited at the external microphone jack : No signal</td></tr>
<tr><th>ADJ. Location</th><th colspan="2">ADJ. / Check Value</th></tr>
<tr><td></td><td colspan="2"></td></tr>
</table>

Preparation:

- Stand-by switch: "STANDBY"
- POWER switch: "CAMERA" and "PLAYER"

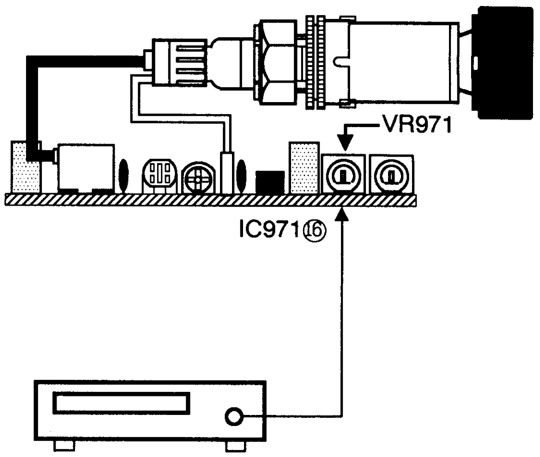
Adjusting / Checking method:

1. Record then play back the recorded portion.
2. Confirm that (playback level in 4. Overall Level Check) dBs - (playback level in this step) dBs is over 45 dB (JIS A audio corrections).

2-10. VIEWFINDER CIRCUIT (For VM-EX220P/280P)

1. Horizontal Oscillation Frequency Adjustment

[Adjusting Location]



[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
IC971 ⑯, CN971 ② (GND)	Frequency counter	Stop
	Input Signal / Alignment Tape	
	No signal	
ADJ. Location	**ADJ. / Check Value**	
VR971	15,600 ± 100 Hz	

Preparation:

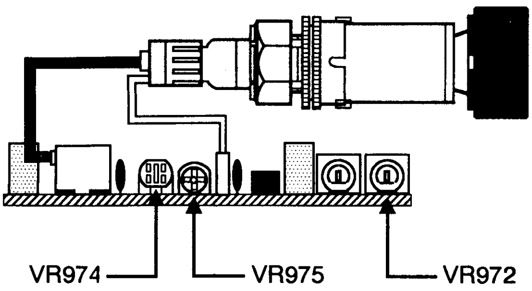
- POWER switch: "PLAYER"

Adjustment:

1. Adjust to 15,600 ± 100 Hz with VR971.

2. Viewfinder Provisional Adjustment

[Adjusting Location]



[Adjustment / Check]

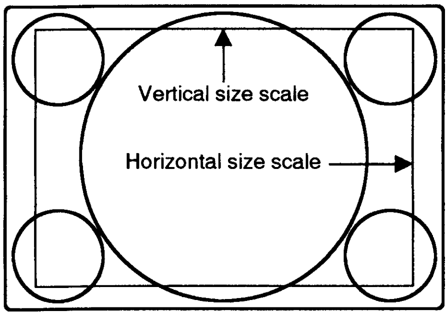
Measuring Point	Measuring Equipment	Condition
Viewfinder		Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check, monoscope portion	
ADJ. Location	**ADJ. / Check Value**	
VR972, VR974 VR975		

Preparation:

- POWER switch: "PLAYER"
- Short pin ⑪ and pin ⑭ of J1005.

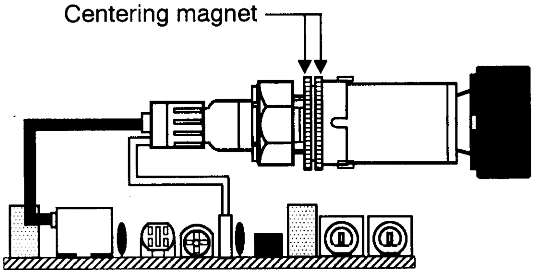
Adjustment:

1. Turn VR975 (BRIGHT) to obtain adequate brightness.
2. Turn VR972 (V SIZE) to adjust picture size.
3. Adjust VR975 (BRIGHT) and VR974 (FOCUS) so that a proper picture display is obtained.



3. Centering Adjustment

[Adjusting Location]


Centering magnet

[Adjustment / Check]

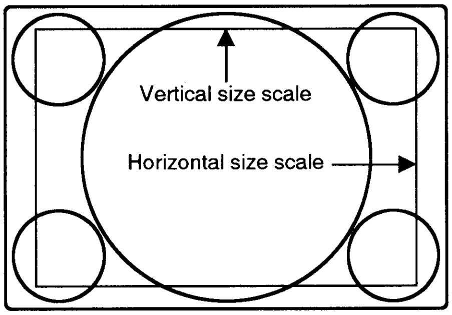
Measuring Point	Measuring Equipment	Condition
Viewfinder		Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check, monoscope portion	
ADJ. Location	ADJ. / Check Value	

Preparation:

- POWER switch: "PLAYER"
- Short pin ⑪ and pin ⑭ of J1005.

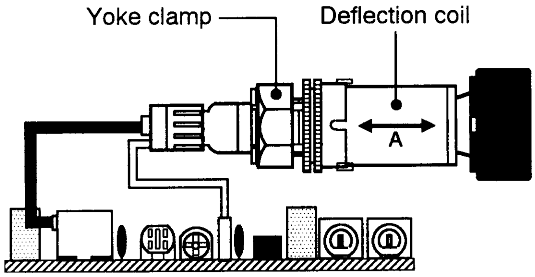
Adjustment:

1. Turn the centering magnet to center the picture.
2. Fix the centering magnet with lacquer.


Vertical size scale
Horizontal size scale

4. Horizontal Size & Viewfinder Slant Adjustment

[Adjusting Location]


Yoke clamp
Deflection coil
A

[Adjustment / Check]

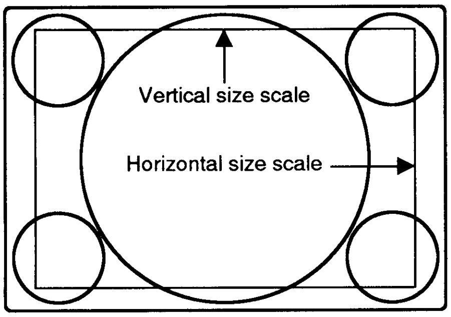
Measuring Point	Measuring Equipment	Condition
Viewfinder		Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check, monoscope portion	
ADJ. Location	ADJ. / Check Value	

Preparation:

- POWER switch: "PLAYER"
- Short pin ⑪ and pin ⑭ of J1005.

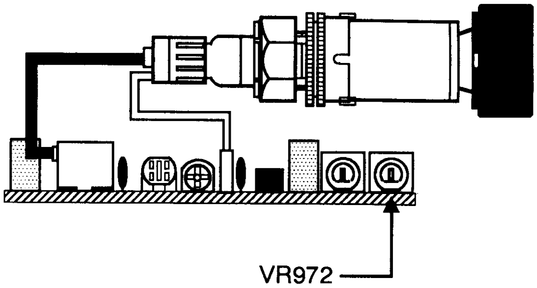
Adjustment:

1. Loosen the yoke clamp, then move the deflection coil in the direction of arrow A, and adjust the horizontal size within 87.5 to 92.5 on the horizontal size scale of the monoscope signal.
2. Turn the deflection coil so that picture slant is within 0 ± 1.5 °. (The difference between right and left should be within 0.5 on the vertical size scale of the monoscope signal).
3. Fix the deflection coil with the yoke clamp.


Vertical size scale
Horizontal size scale

5. Vertical Size Adjustment

[Adjusting Location]

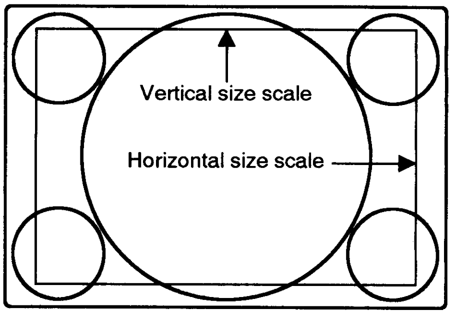


[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
Viewfinder		Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check, monoscope portion	
ADJ. Location	**ADJ. / Check Value**	
VR972		

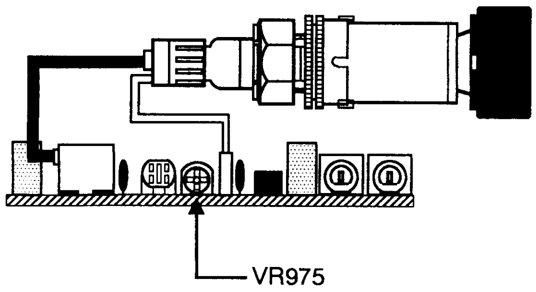
Preparation:
- POWER switch: "PLAYER"
- Short pin ⑪ and pin ⑭ of J1005.

Adjustment:
1. Turn and adjust VR972 within 87.5 to 92.5 on the vertical size scale of the monoscope signal.



6. Brightness Adjustment

[Adjusting Location]



[Adjustment / Check]

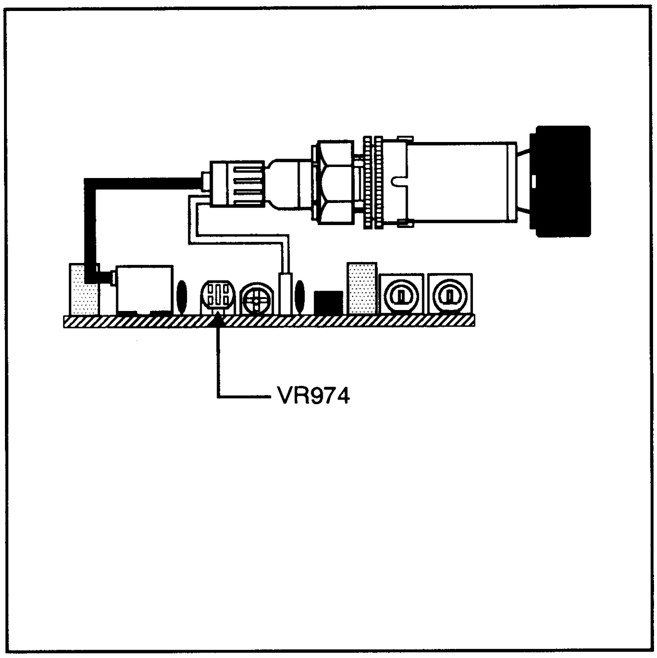
Measuring Point	Measuring Equipment	Condition
Viewfinder		Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check, monoscope portion	
ADJ. Location	**ADJ. / Check Value**	
VR975		

Preparation:
- POWER switch: "PLAYER"

Adjustment:
1. Adjust to adequate brightness with VR975.

7. Focus Adjustment

[Adjusting Location]

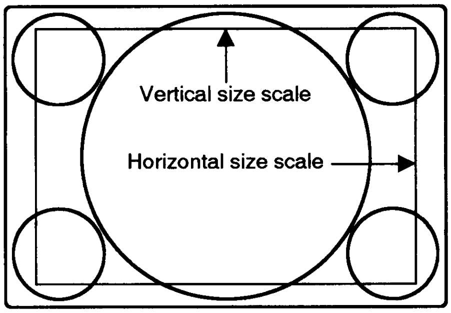


[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
Viewfinder		Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check, monoscope portion	
ADJ. Location	ADJ. / Check Value	
VR974		

Preparation:
- POWER switch: "PLAYER"
- Short pin ⑪ and pin ⑭ of J1005.

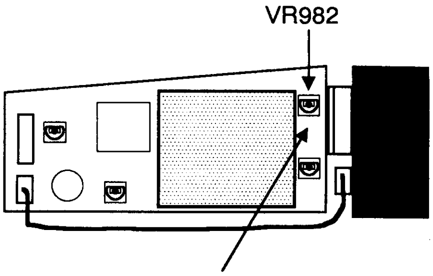
Adjustment:
1. Adjust VR974 so as to optimize resolution of the monoscope pattern.


Vertical size scale
Horizontal size scale

2-11. VIEWFINDER CIRCUIT (For VM-EX370P)

1. LCD Common Voltage Adjustment

[Adjusting Location]



CN973 ① and CN973 ⑤ are located on the reverse side of the VF1 board.

[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
CN973①(+), ⑤ (GND)	Digital voltmeter	CAMERA EE
	Input Signal / Alignment Tape	
ADJ. Location	ADJ. / Check Value	
VR982	5.7 ± 0.1 VDC	

Preparation:

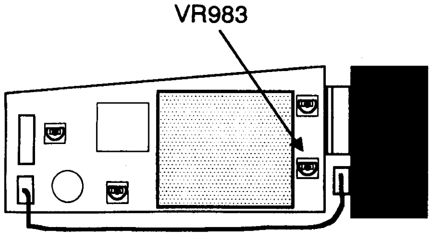
- POWER switch: "CAMERA"
- Stand-by switch: "STANDBY"

Adjustment:

1. Adjust with VR982 to 5.7 ± 0.1 VDC.

2. PLL Lock Adjustment

[Adjusting Location]



[Adjustment / Check]

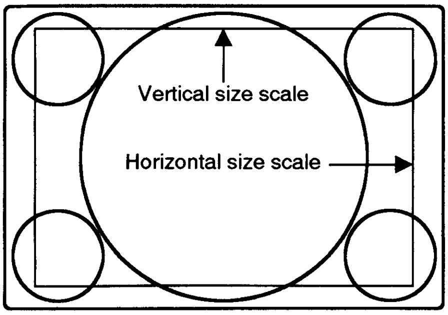
Measuring Point	Measuring Equipment	Condition
Viewfinder		Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check, monoscope portion	
ADJ. Location	ADJ. / Check Value	
VR983		

Preparation:

- POWER switch: "PLAYER"

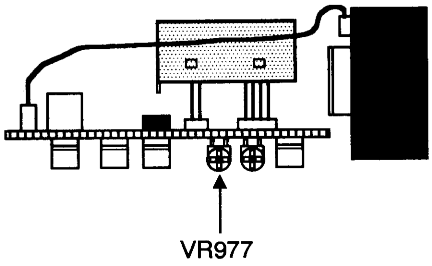
Adjustment:

1. Turn VR983 to center the picture on the horizontal size scale of the monoscope signal.



3. Brightness Adjustment

[Adjusting Location]



[Adjustment / Check]

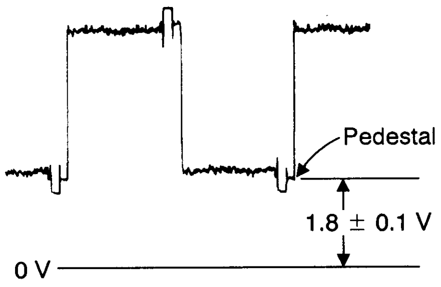
Measuring Point	Measuring Equipment	Condition
CN973⑯, ⑤(GND)	Oscilloscope	Stop
	Input Signal / Alignment Tape	
ADJ. Location	**ADJ. / Check Value**	
VR977	1.8 ± 0.1 V	

Preparation:

- POWER switch: "PLAYER"

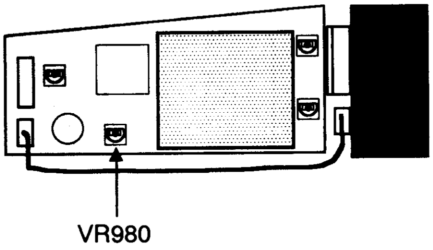
Adjustment:

1. Adjust with VR977 so that the pedestal level becomes 1.8 ± 0.1 V.



4. Contrast Adjustment

[Adjusting Location]



[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
Viewfinder		CAMERA EE
	Input Signal / Alignment Tape	
	Get the subject in focus	
ADJ. Location	**ADJ. / Check Value**	
VR980		

Preparation:

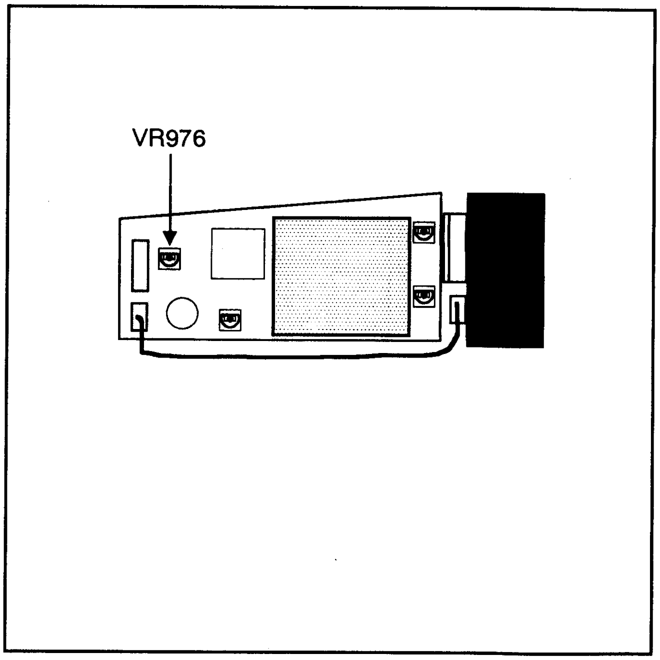
- POWER switch: "CAMERA"
- Stand-by switch: "STANDBY"

Adjustment:

1. Adjust the contrast of the subject to the optimum level with VR980.

5. Gamma Adjustment

[Adjusting Location]



[Adjustment / Check]

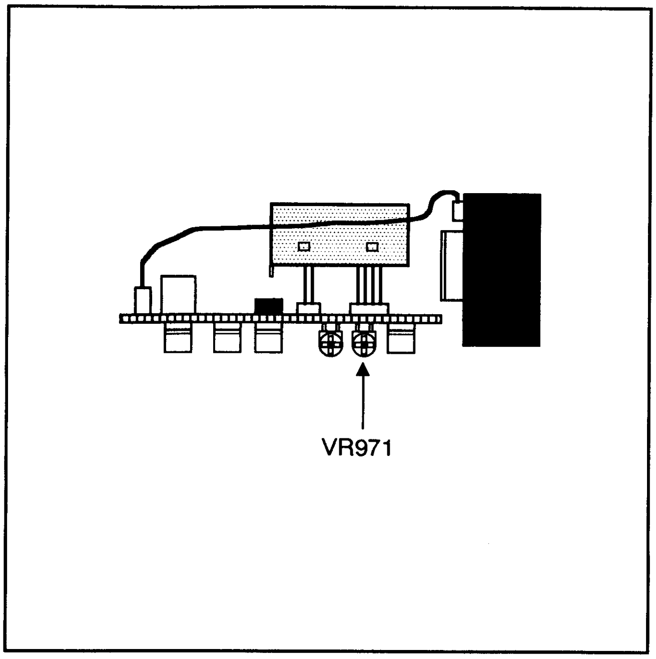
Measuring Point	Measuring Equipment	Condition
Viewfinder		CAMERA EE
	Input Signal / Alignment Tape	
	Get the subject in focus	
ADJ. Location	**ADJ. / Check Value**	
VR976		

Preparation:
- POWER switch: "CAMERA"
- Stand-by switch: "STANDBY"

Adjustment:
1. Adjust to adequate contrast of the subject with VR976.

6. Color Gain Adjustment

[Adjusting Location]



[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
Viewfinder		Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check, color bar portion	
ADJ. Location	**ADJ. / Check Value**	
VR971		

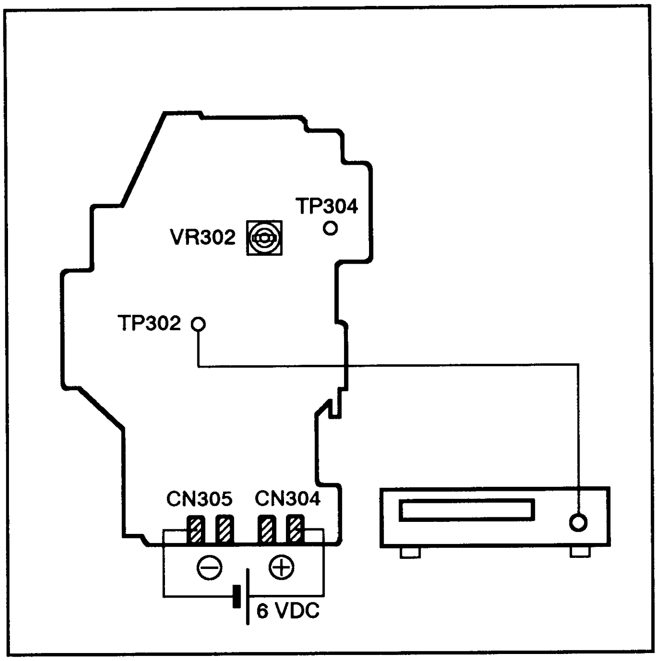
Preparation:
- POWER switch: "PLAYER"

Adjustment:
1. Adjust the color contrast of the color bar to the optimum level with VR971.

2-12. POWER CIRCUIT

1. DC-DC Converter Frequency Adjustment

[Adjusting Location]



[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
TP302 TP304 (GND)	Frequency counter	CAMERA EE
	Input Signal / Alignment Tape	
ADJ. Location	ADJ. / Check Value	
VR302	401.0 ± 1.0 kHz	

Notes:

1. Power circuit adjustment is only necessary after IC301 has been replaced. It is not necessary at other times.
2. The mechanism block need to be removed first before adjustment can be carried out.
3. Apply 6.0 ± 0.1 VDC to terminals CN305 (-) and CN304 (+).

- Notes 1. to 3. above apply to all power circuit adjustment operations.

Preparation:

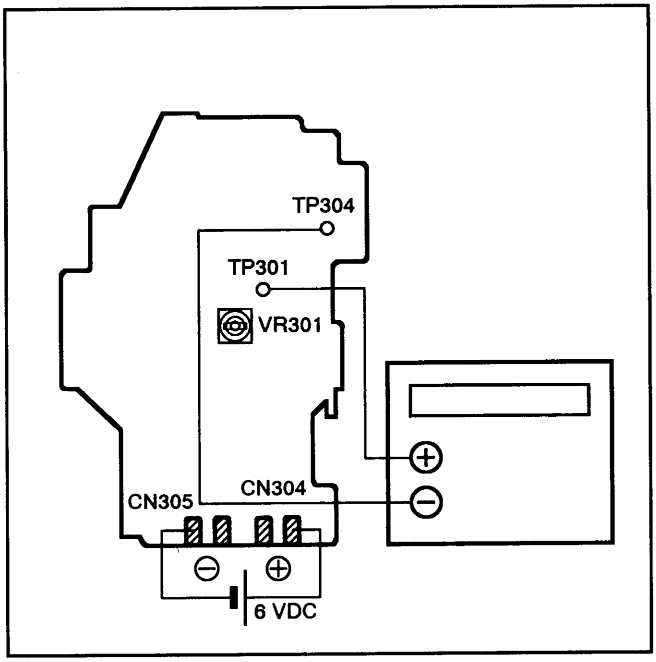
- POWER switch: "CAMERA"
- Stand-by switch: "STANDBY"

Adjustment:

1. Adjust with VR302 to 401.0 ± 1.0 kHz.

2. Video/Audio Power Supply Adjustment

[Adjusting Location]



[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
TP301 TP304 (GND)	Digital voltmeter	CAMERA EE
	Input Signal / Alignment Tape	
ADJ. Location	ADJ. / Check Value	
VR301	5.00 ± 0.02 VDC	

Preparation:

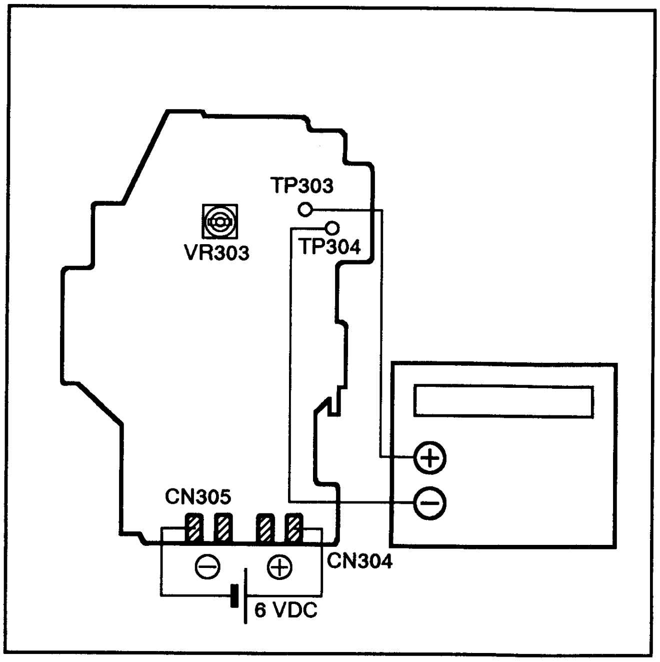
- POWER switch: "CAMERA"
- Stand-by switch: "STANDBY"

Adjustment:

1. Adjust with VR301 to 5.00 ± 0.02 VDC.

3. Camera Power Supply Adjustment

[Adjusting Location]



[Adjustment / Check]

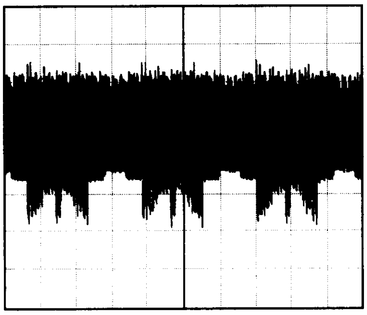
Measuring Point	Measuring Equipment	Condition
TP303 TP304 (GND)	Digital voltmeter	CAMERA EE
	Input Signal / Alignment Tape	
ADJ. Location	**ADJ. / Check Value**	
VR303	5.05 ± 0.02 VDC	

Preparation:
- POWER switch: "CAMERA"
- Stand-by switch: "STANDBY".

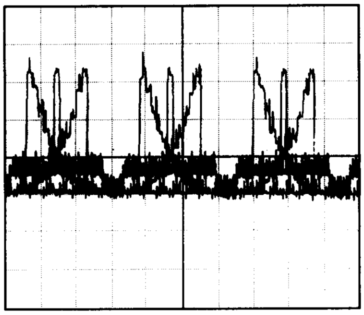
Adjustment:
1. Adjust with VR303 to 5.05 ± 0.02 VDC.

6. WAVEFORM

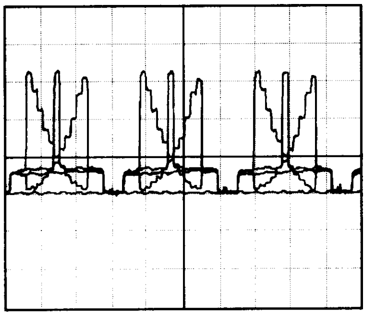
6-1. CAMERA CIRCUIT (CP2 BOARD)



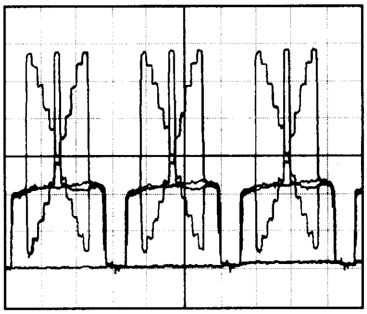
① *Q9501 880mVp-p*
0.2V/20μs/div.
[Gray Scale Chart]



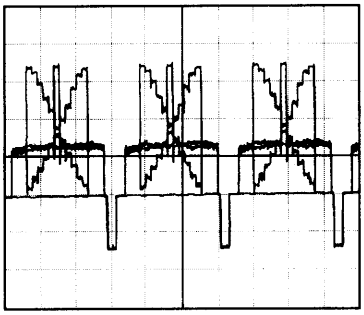
② *IC917-3 700mVp-p*
0.2V/20μs/div.
[Gray Scale Chart]



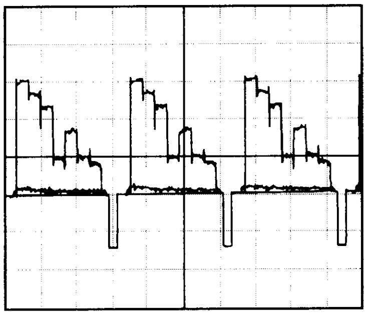
③ *IC914-64 320mVp-p*
0.1V/20μs/div.
[Gray Scale Chart]



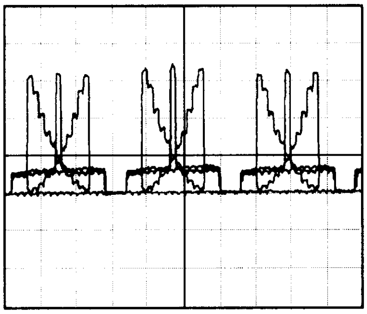
④ *IC914-6 1360mVp-p*
0.2V/20μs/div.
[Gray Scale Chart]



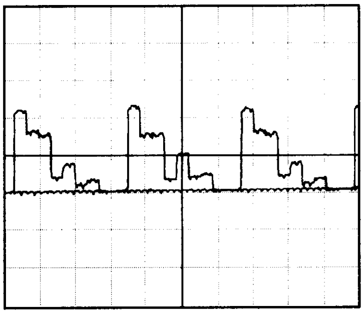
⑤ *IC912-22 960mVp-p*
0.2V/20μs/div.
[Gray Scale Chart]



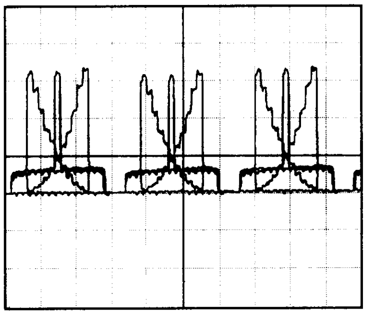
⑤ *IC912-22 880mVp-p*
0.2V/20μs/div.
[Color Bar Chart]



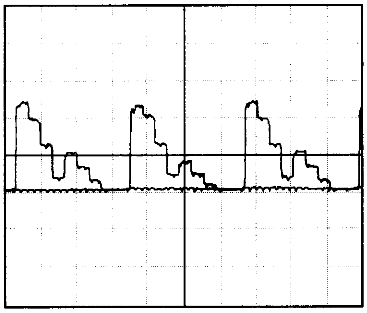
⑥ *IC917-4 660mVp-p*
0.2V/20μs/div.
[Gray Scale Chart]



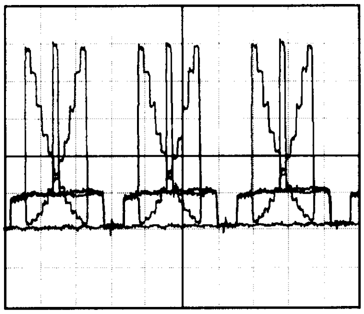
⑥ *IC917-4 480mVp-p*
0.2V/20μs/div.
[Color Bar Chart]



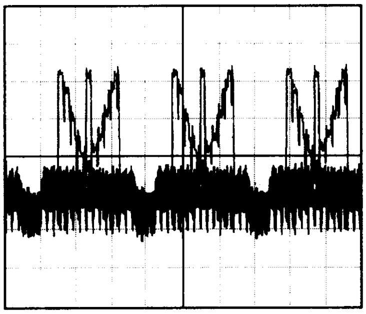
⑦ *IC917-5 640mVp-p*
0.2V/20μs/div.
[Gray Scale Chart]



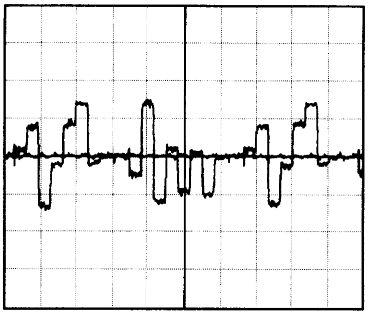
⑦ *IC917-5 480mVp-p*
0.2V/20μs/div.
[Color Bar Chart]



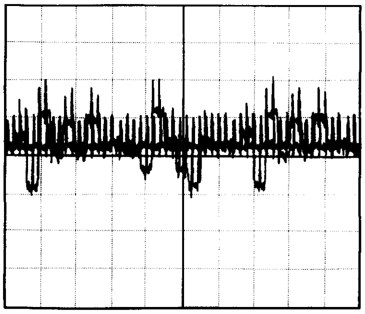
⑧ *IC914-52 250mVp-p*
50mV/20μs/div.
[Gray Scale Chart]



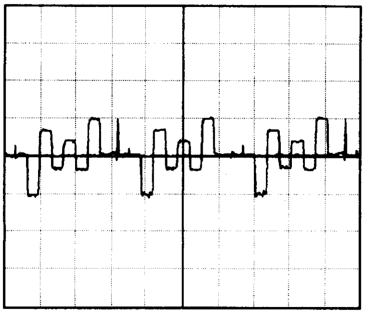
⑨ *IC913-11 180mVp-p*
50mV/20μs/div.
[Gray Scale Chart]



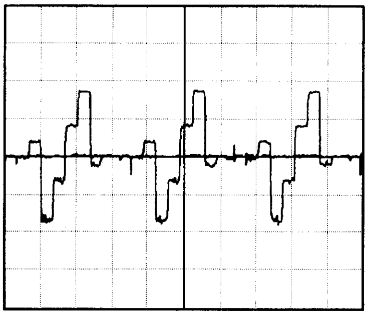
⑩ *IC914-46 140mVp-p*
50mV/20μs/div.
[Color Bar Chart]



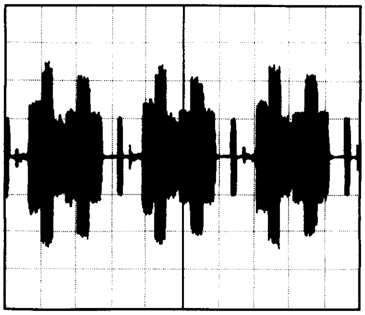
⑪ *IC913-14 100mVp-p*
50mV/20μs/div.
[Color Bar Chart]



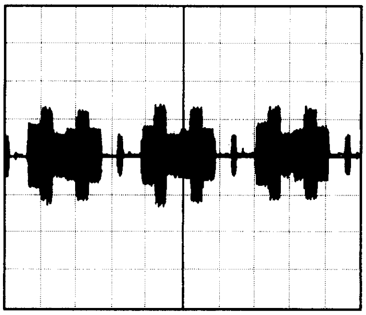
⑫ *IC914-19 400mVp-p*
0.2V/20μs/div.
[Color Bar Chart]



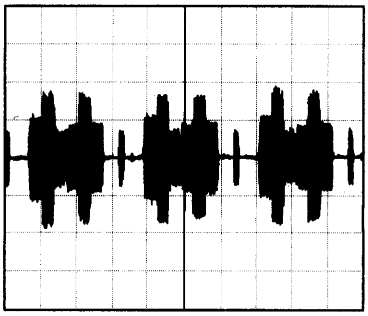
⑬ *IC914-20 700mVp-p*
0.2V/20μs/div.
[Color Bar Chart]



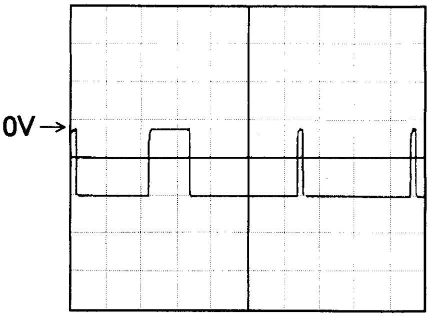
⑭ *IC912-16 960mVp-p*
0.2V/20μs/div.
[Color Bar Chart]



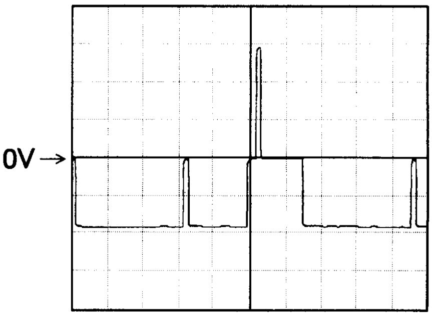
⑮ *IC912-18 540mVp-p*
0.2V/20μs/div.
[Color Bar Chart]



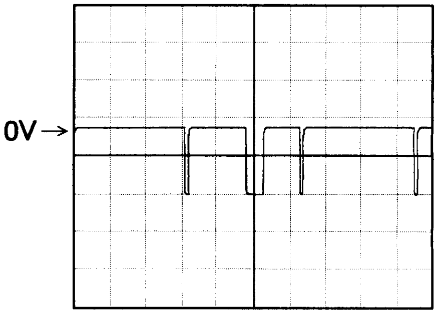
⑯ *IC912-20 680mVp-p*
0.2V/20μs/div.
[Color Bar Chart]



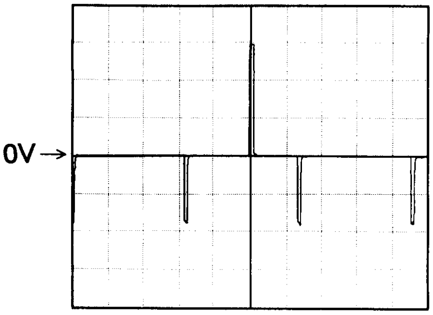
⑰ *IC951-1 7.5Vp-p*
5.0V/20μs/div.



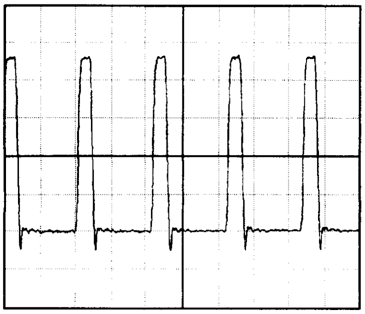
⑱ *IC951-2 22.5Vp-p*
5.0V/20μs/div.



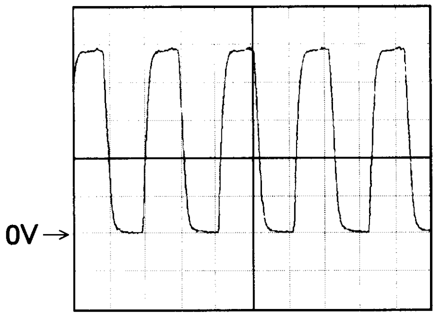
⑲ *IC951-3 7.5Vp-p*
5.0V/20μs/div.



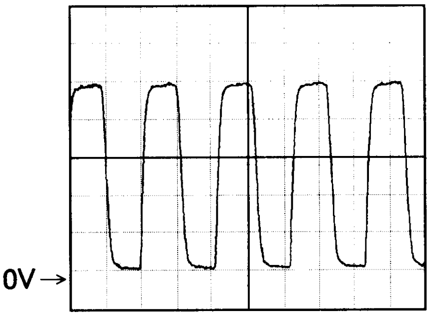
⑳ *IC951-4 22.5Vp-p*
5.0V/20μs/div.



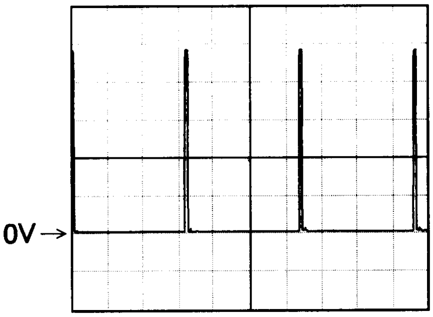
㉑ *IC951-12 4.6Vp-p*
1.0V/50ns/div.



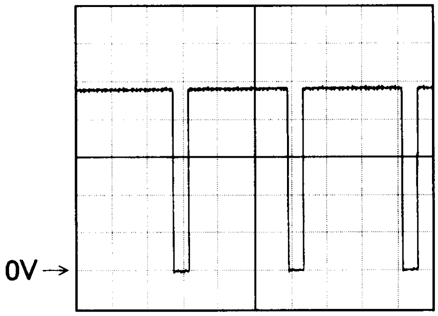
㉒ *IC951-13 4.9Vp-p*
1.0V/50ns/div.



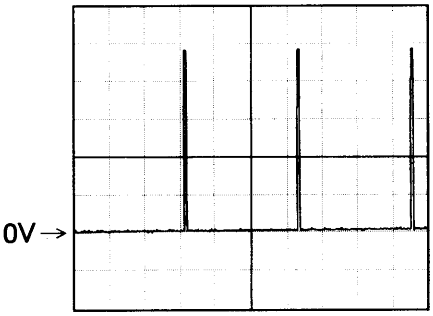
㉓ *IC951-14 4.9Vp-p*
1.0V/50ns/div.



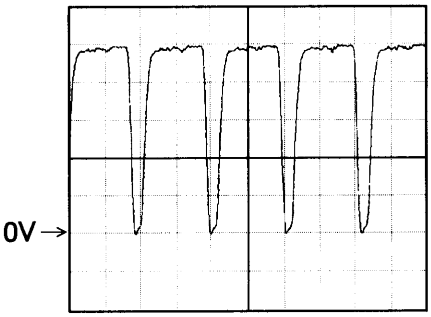
㉔ *IC917-13 5.0Vp-p*
1.0V/20μs/div.



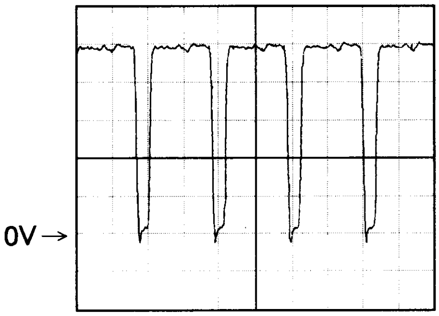
㉕ *IC917-14 4.8Vp-p*
1.0V/20μs/div.



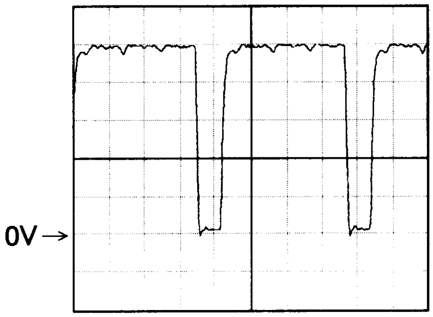
㉖ *IC917-36 4.8Vp-p*
1.0V/20μs/div.



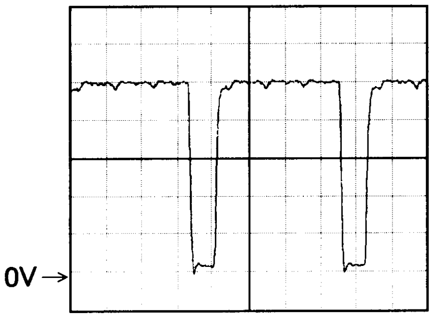
㉗ *IC917-34 5.0Vp-p*
1.0V/50ns/div.



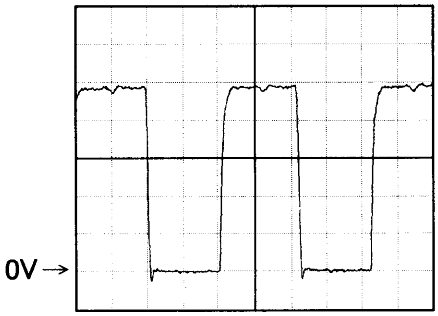
㉘ *IC917-35 5.0Vp-p*
1.0V/50ns/div.



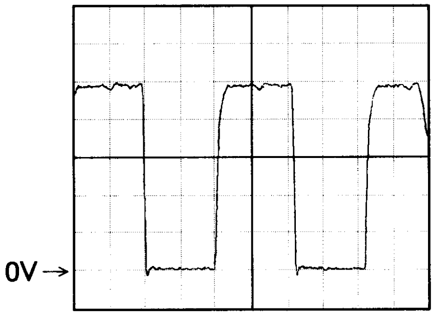
㉙ *IC917-42 5.0Vp-p*
1.0V/50ns/div.



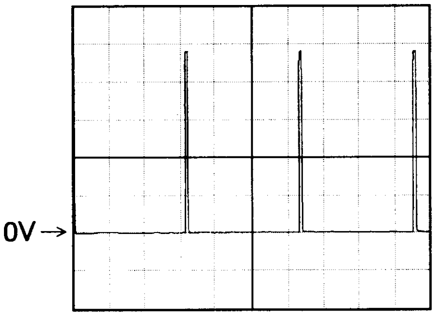
㉚ *IC917-41 5.0Vp-p*
1.0V/50ns/div.



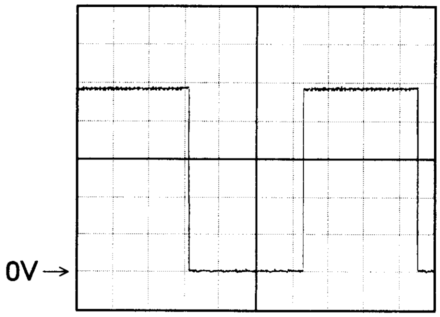
㉛ *IC917-1 5.0Vp-p*
1.0V/50ns/div.



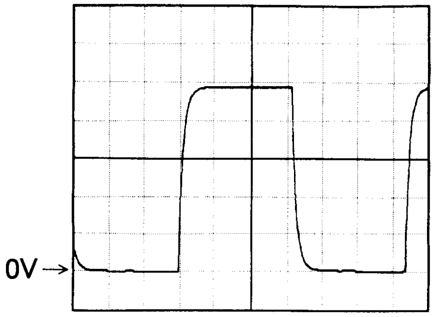
㉜ *IC917-48 5.0Vp-p*
1.0V/50ns/div.



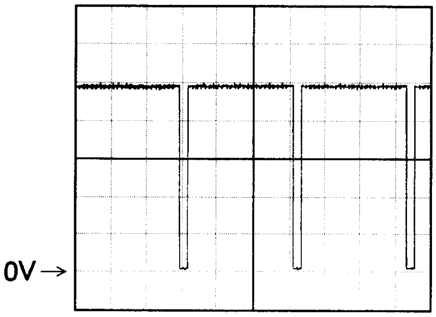
㉝ *IC914-10 4.8Vp-p*
1.0V/20μs/div.



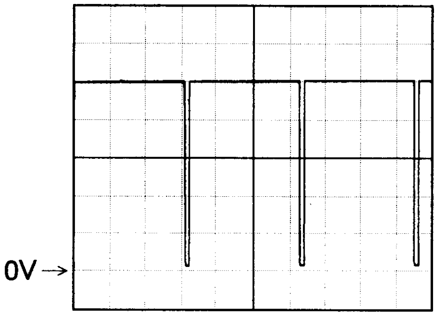
㉞ *IC914-41 4.8Vp-p*
1.0V/20μs/div.



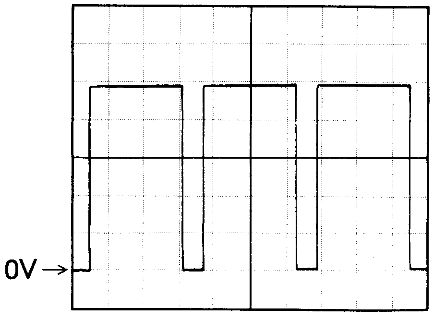
㉟ *IC912-5 4.9Vp-p*
1.0V/20μs/div.



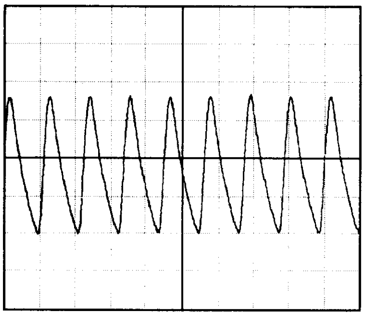
㊱ *IC912-9 4.8Vp-p*
1.0V/20μs/div.



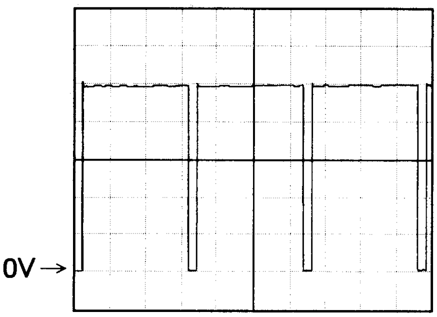
㊲ *IC912-10 4.9Vp-p*
1.0V/20μs/div.



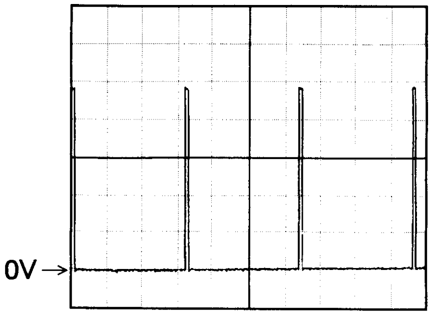
㊳ *IC912-11 4.9Vp-p*
1.0V/20μs/div.



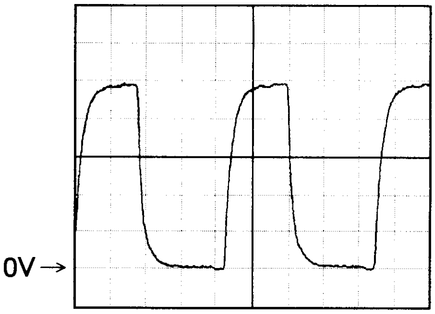
㊴ *IC912-4 720mVp-p*
0.2V/50ns/div.



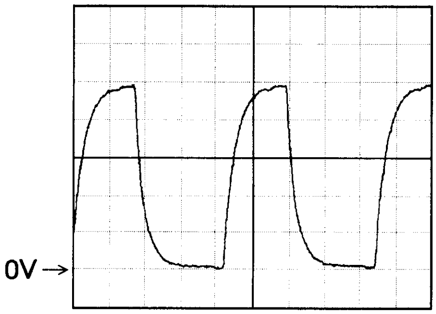
㊵ *IC912-25 4.9Vp-p*
1.0V/20μs/div.



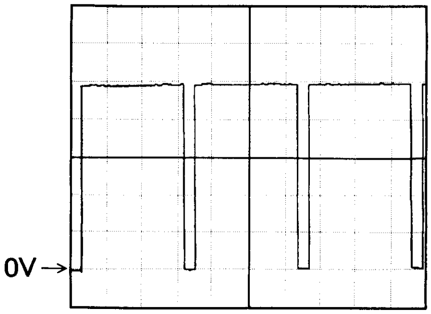
㊶ *IC913-7 4.8Vp-p*
1.0V/20μs/div.



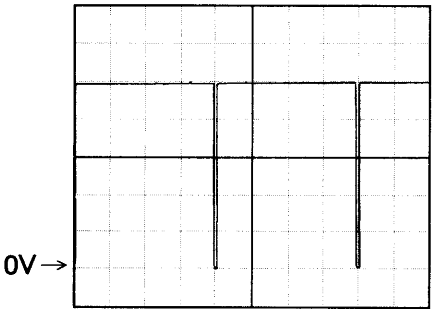
㊷ *IC913-19 4.9Vp-p*
1.0V/50ns/div.



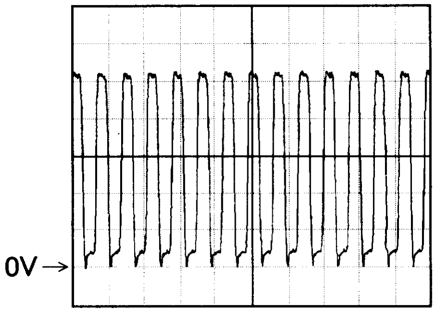
㊸ *IC913-18 4.9Vp-p*
1.0V/50ns/div.



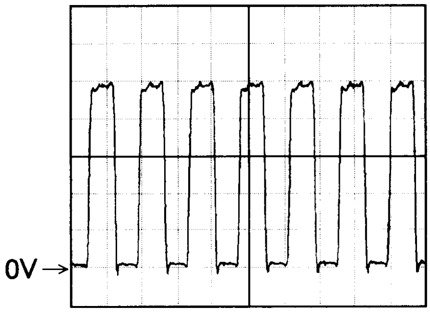
㊹ *IC915-29 4.9Vp-p*
1.0V/20μs/div.



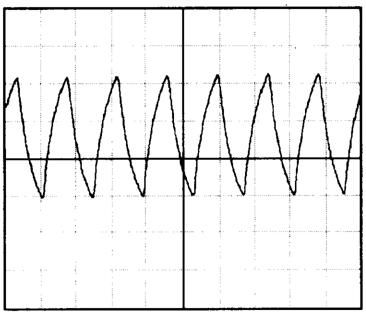
㊺ *IC915-30 4.9Vp-p*
1.0V/5ms/div.



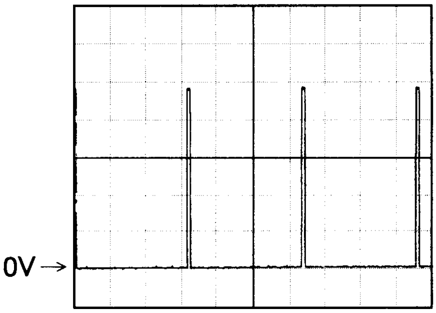
㊻ *IC916-63 5.0Vp-p*
1.0V/50ns/div.



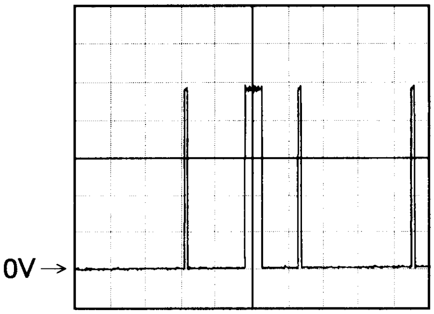
㊼ *IC916-57 5.0Vp-p*
1.0V/50ns/div.



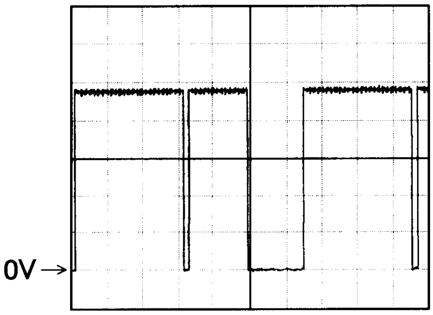
㊽ *IC915-6 3.2Vp-p*
1.0V/50ns/div.



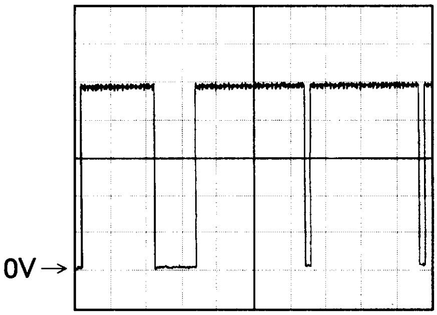
㊾ *IC916-31 4.8Vp-p*
1.0V/20μs/div.



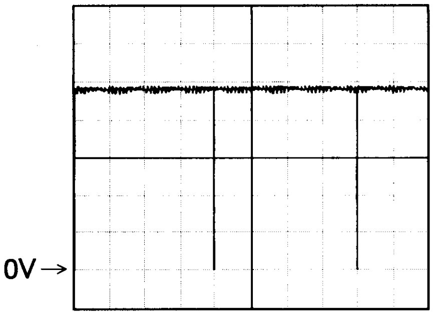
㊿ *IC916-30 4.8Vp-p*
1.0V/20μs/div.



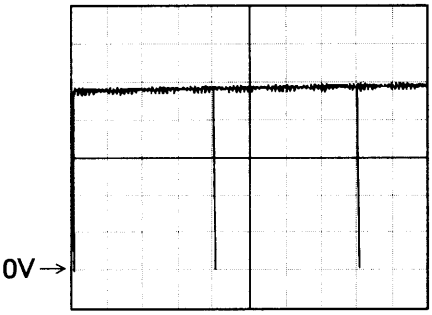
(51) *IC916-33 4.8Vp-p*
1.0V/20μs/div.



(52) *IC916-35 4.8Vp-p*
1.0V/20μs/div.

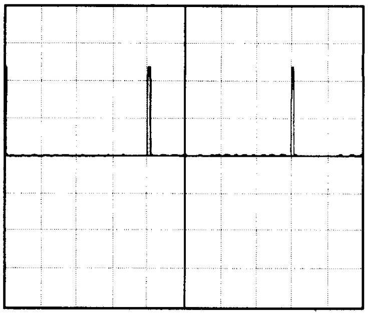


(53) *IC916-32 4.8Vp-p*
1.0V/5ms/div.

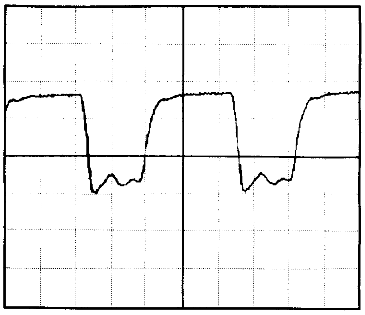


(54) *IC916-34 4.8Vp-p*
1.0V/5ms/div.

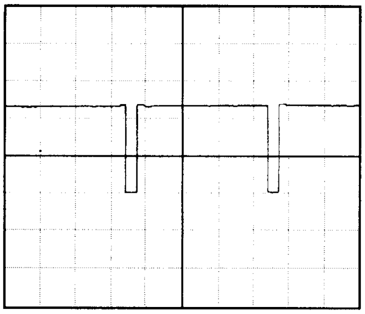
(CP2 BOARD TC-A BLOCK)



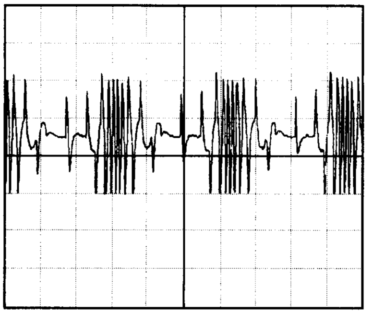
① IC931-7 4.97Vp-p
2.0V/5ms/div.



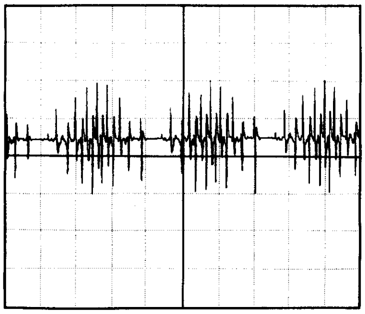
② IC931-27 5.47Vp-p
2.0V/20ns/div.



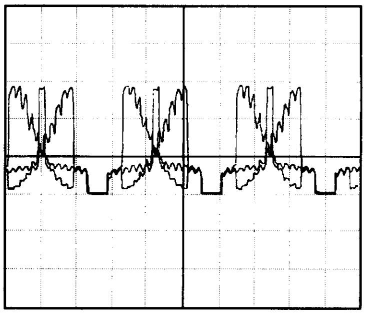
③ IC931-30 4.81Vp-p
2.0V/5ms/div.



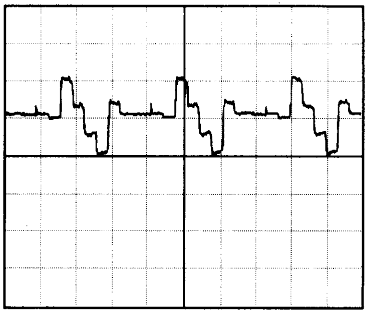
④ IC931-34 3.25Vp-p
1.0V/20µs/div.



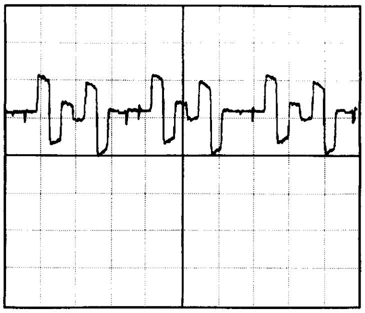
⑤ IC931-35 1.5Vp-p
0.5V/20µs/div.



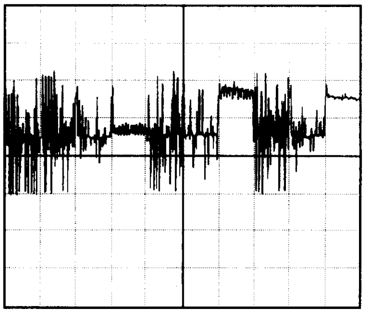
⑥ IC931-40 1.44Vp-p
0.5V/20µs/div.
[Gray Scale Chart]



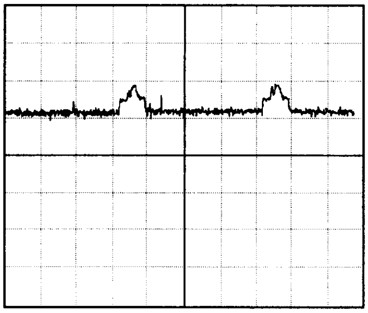
⑦ IC931-43 2.12Vp-p
1.0V/20µs/div.
[Color Bar Chart]



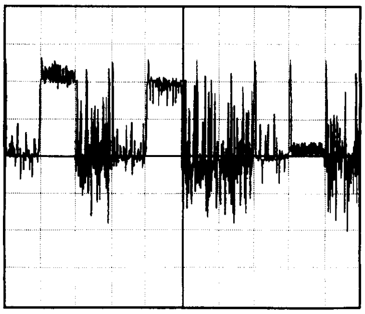
⑧ IC931-45 2.15Vp-p
1.0V/20µs/div.
[Color Bar Chart]



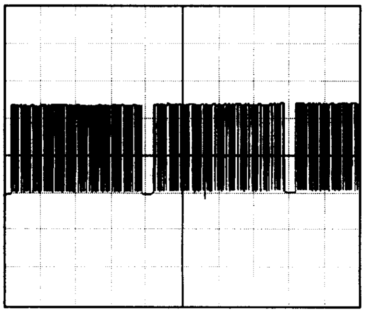
⑨ IC931-50 3.33Vp-p
1.0V/20ms/div.



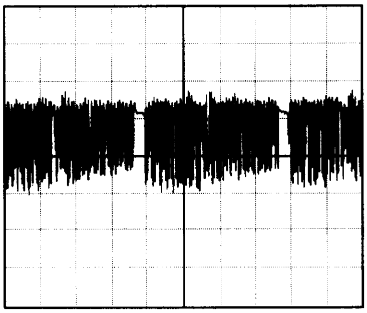
⑩ IC931-51 43.5mVp-p
50mV/5ms/div.



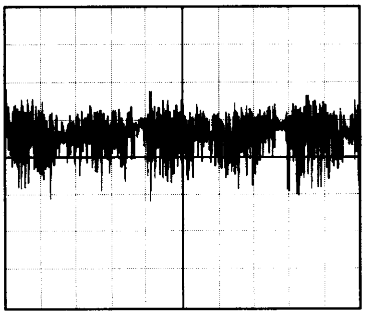
⑪ IC931-52 2.26Vp-p
0.5V/20ms/div.



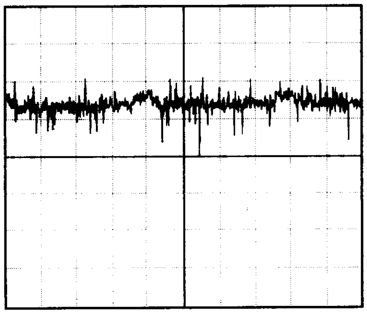
⑫ IC931-55 4.8Vp-p
2.0V/5ms/div.



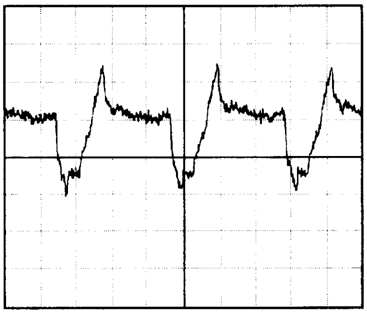
⑬ Q9302-6 277mVp-p
0.1V/5ms/div.



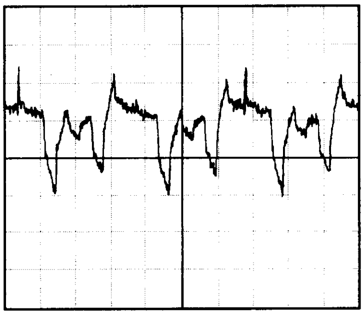
⑭ Q9305-2 58.2mVp-p
20mV/5ms/div.



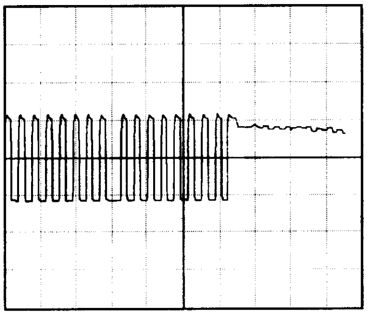
⑮ Q9306-2 42.4mVp-p
20mV/5ms/div.



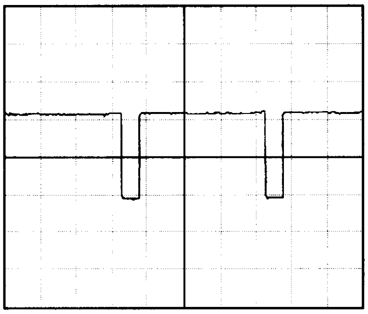
⑯ Q9331-2 70.0mVp-p
20mV/20μs/div.
[Color Bar Chart]



⑰ Q9332-2 69.8mVp-p
20mV/20μs/div.
[Color Bar Chart]

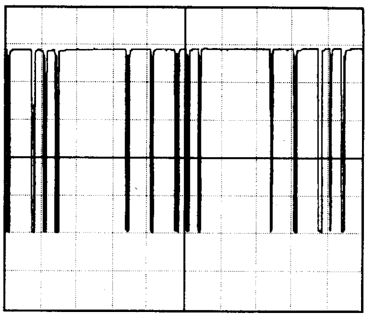


⑱ CN933-1 4.95Vp-p
2.0V/50μs/div.

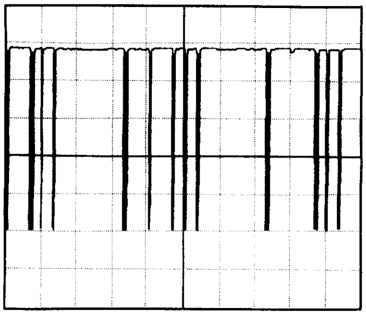


⑲ CN933-16 4.95Vp-p
2.0V/5ms/div.

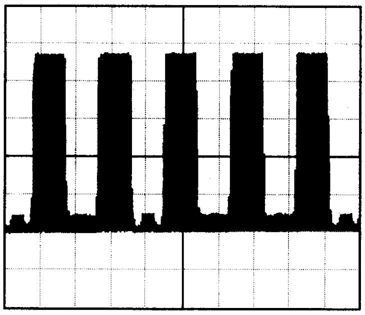
6-2. SERVO/SYSTEM CONTROL CIRCUIT



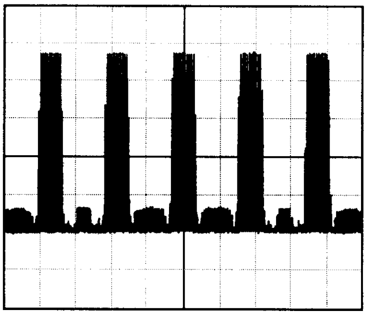
① IC351-82 4.8Vp-p
1.0V/5ms/div.



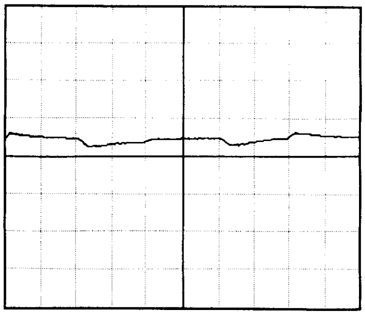
② IC351-84 4.8Vp-p
1.0V/5ms/div.



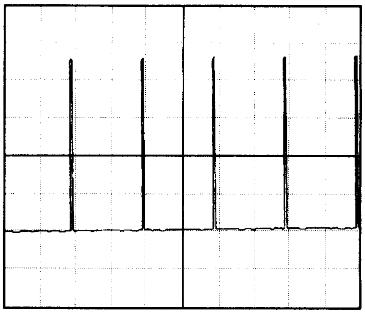
③ IC351-98 4.7Vp-p
1.0V/500ms/div.
[REC]



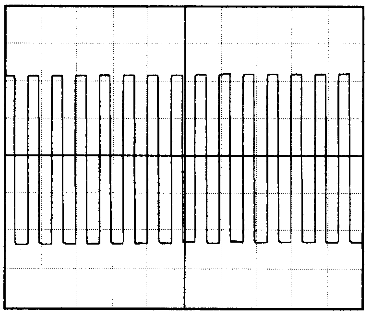
④ IC351-99 4.73Vp-p
1.0V/500ms/div.
[REC]



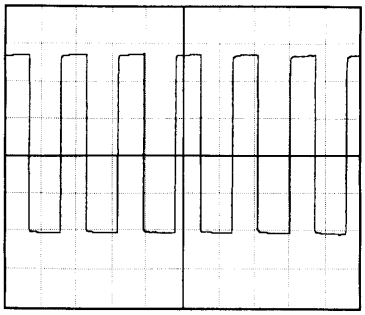
⑤ IC351-108 310mVp-p
1.0V/5ms/div.
[PLAY]



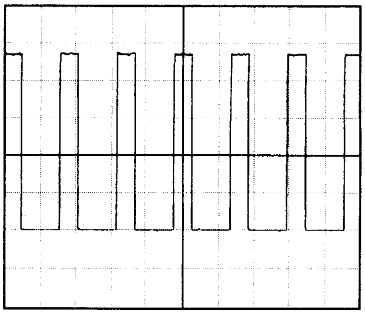
⑥ IC351-120 4.57Vp-p
1.0V/20ms/div.
[REC/PLAY]



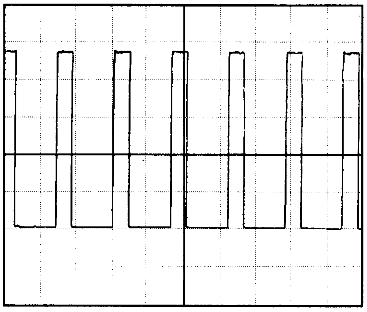
⑦ IC351-121 4.54Vp-p
1.0V/5ms/div.
[REC/PLAY]



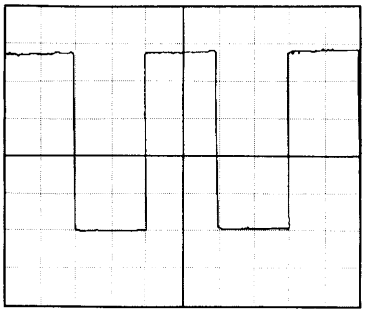
⑧ IC351-122 4.8Vp-p
1.0V/500μs/div.
[REC/PLAY]



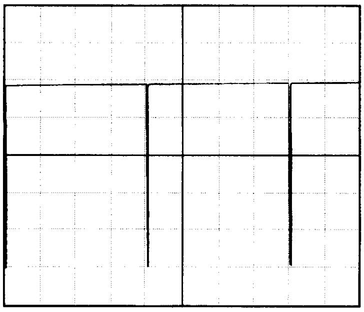
⑨ IC351-2 4.72Vp-p
1.0V/10μs/div.
[REC/PLAY]



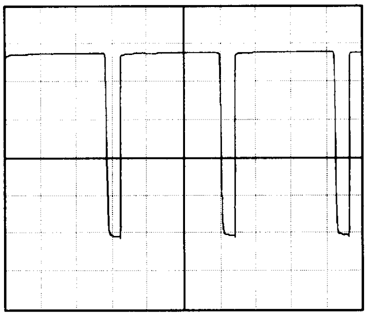
⑩ IC351-3 4.8Vp-p
1.0V/10μs/div.
[REC/PLAY]



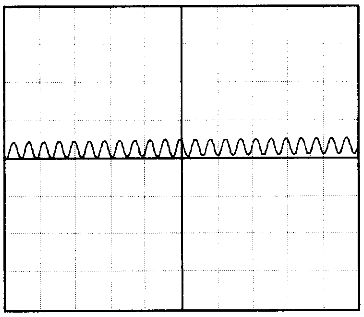
⑪ IC351-14 4.76Vp-p
1.0V/10ms/div.
[REC/PLAY]



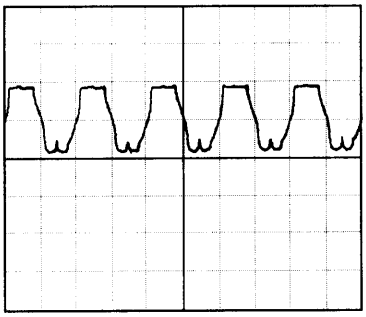
⑫ IC321-18 4.88Vp-p
1.0V/5ms/div.



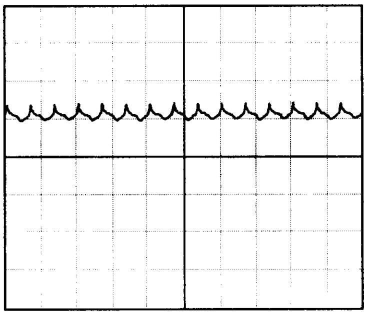
⑬ *IC321-19 4.9Vp-p*
1.0V/20μs/div.



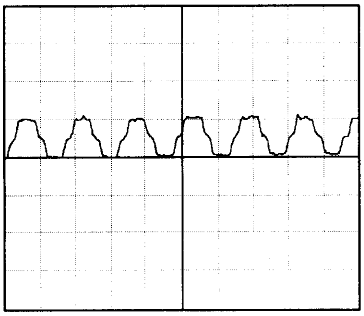
⑭ *IC351-106 600mVp-p*
1.0V/20μs/div.
[REC]



⑮ *IC381-1•2•29 1.6Vp-p*
1.0V/5ms/div.
[REC/PLAY]

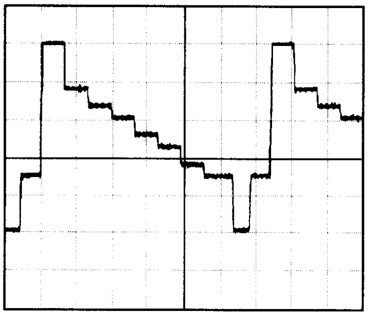


⑯ *IC381-28 440mVp-p*
1.0V/5ms/div.
[REC/PLAY]

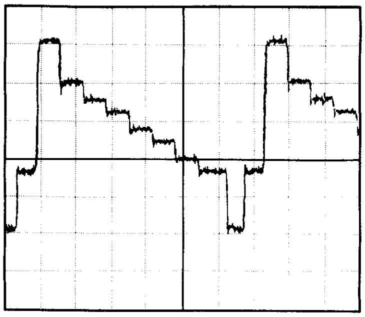


⑰ *IC361-3•27•28 1.0Vp-p*
1.0V/50ms/div.
[REC/PLAY]

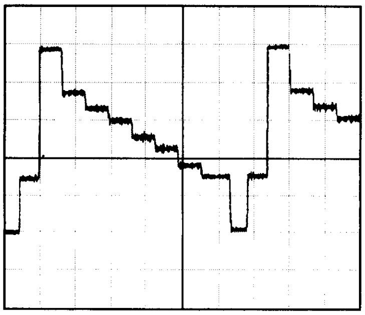
6-3. VIDEO CIRCUIT



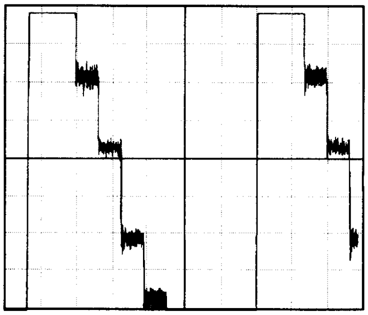
① TP103 500mVp-p
0.1V/10μs/div.
[REC]



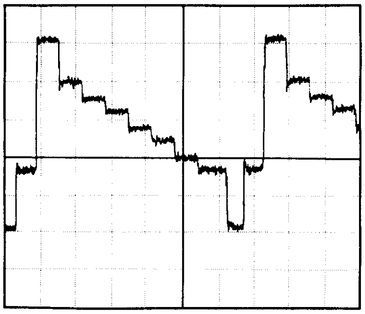
① TP103 500mVp-p
0.1V/10μs/div.
[PLAY]



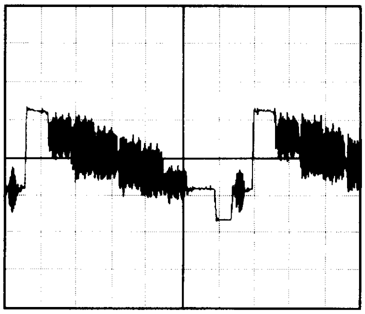
② TP101 500mVp-p
0.1V/10μs/div.



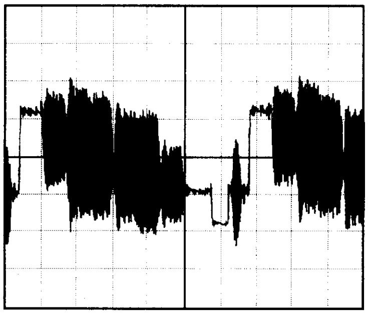
② TP101 6.86mVp-p
50mV/10μs/div.
[REC]



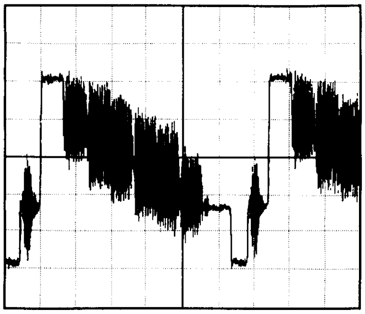
② TP101 520mVp-p
0.1V/10μs/div.
[PLAY]



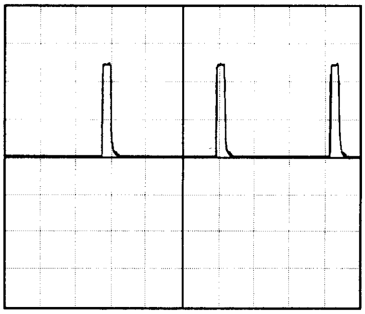
③ IC101-19 290mVp-p
0.1V/10μs/div.
[PLAY]



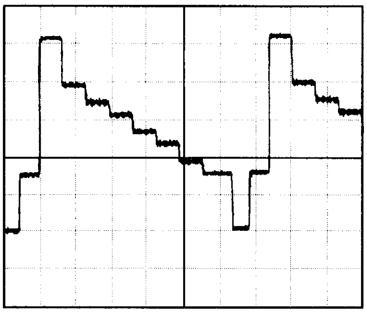
④ IC101-21 300mVp-p
0.1V/10μs/div.
[PLAY]



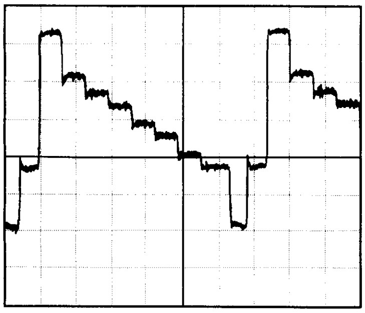
⑤ IC101-23 500mVp-p
0.1V/10μs/div.
[PLAY]



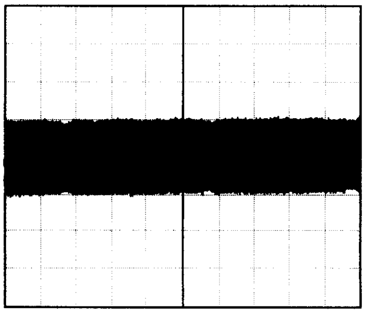
⑥ TP105 2.5Vp-p
1.0V/20μs/div.
[REC]



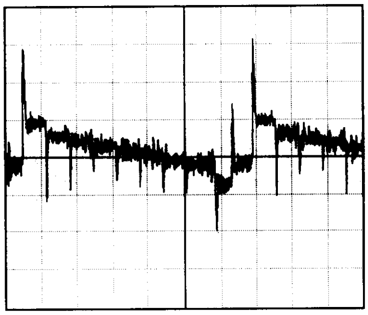
⑦ IC101-34 500mVp-p
0.1V/10μs/div.
[REC]



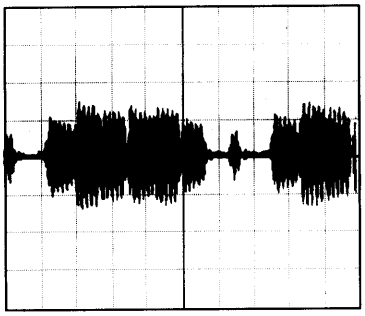
⑦ IC101-34 500mVp-p
0.1V/10μs/div.
[PLAY]



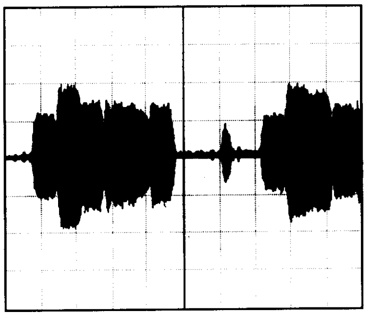
⑧ IC101-41 190mVp-p
0.1V/5ms/div.
[PLAY]



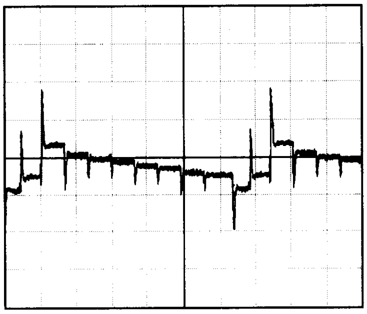
⑨ IC101-7 550mVp-p
0.1V/10µs/div.
[PLAY]



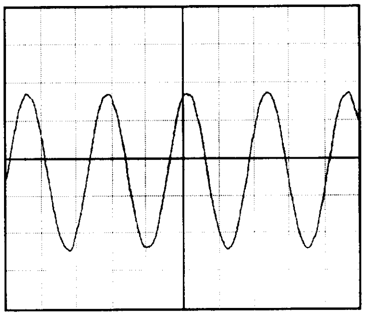
⑩ IC101-64 300mVp-p
0.1V/10µs/div.
[REC]



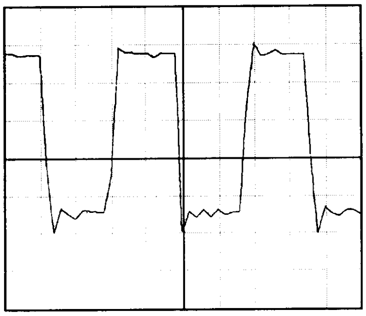
⑩ IC101-64 410mVp-p
0.1V/10µs/div.
[PLAY]



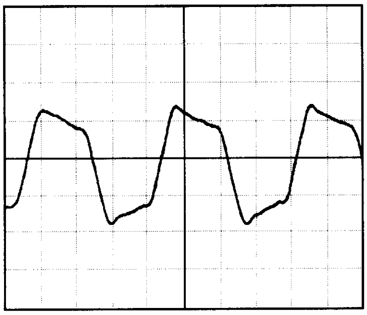
⑪ IC101-10 796mVp-p
0.2V/10µs/div.
[REC]



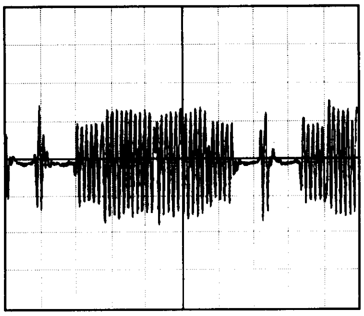
⑫ IC101-61 420mVp-p
0.1V/100ns/div.
[REC]



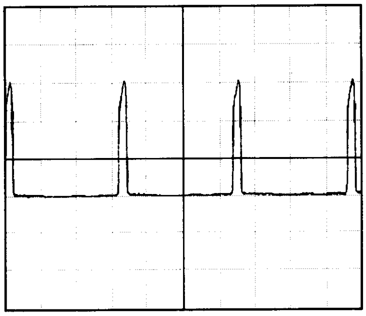
⑬ TP102 500mVp-p
0.1mV/50ns/div.
[REC]



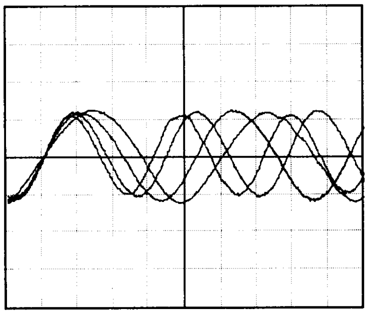
⑭ TP131 640mVp-p
0.2V/5ms/div.
[REC]



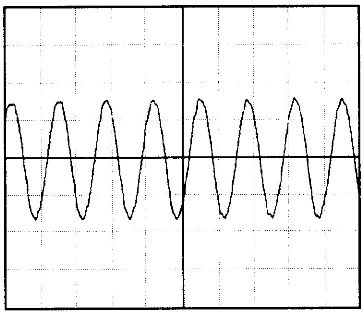
⑮ TP132 320mVp-p
0.1V/10µs/div.
[REC]



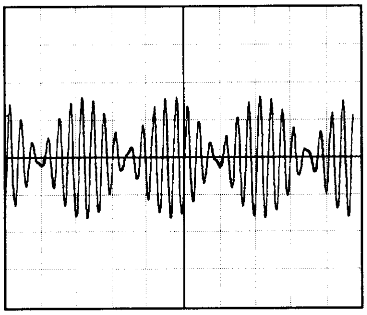
⑯ IC161-10 3.0Vp-p
1.0V/20µs/div.
[REC]



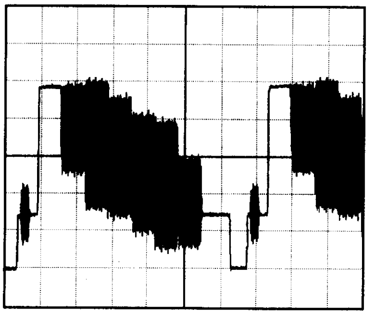
⑰ TP134 125mVp-p
50mV/2µs/div.
[REC]



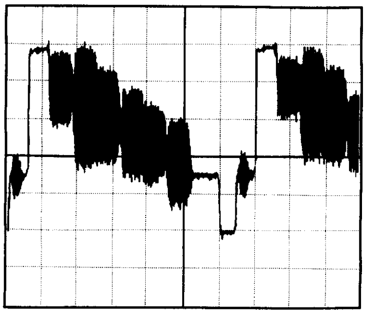
⑱ TP133 160mVp-p
50mV/500ns/div.
[REC] VM-EX220P



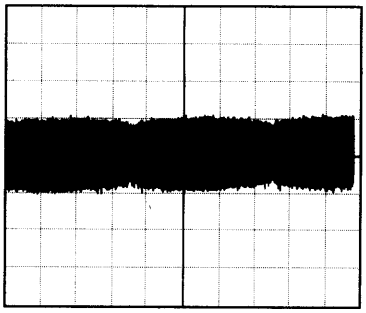
⑱ TP133 330mVp-p
0.1V/2µs/div.
[REC] VM-EX280P
VM-EX370P



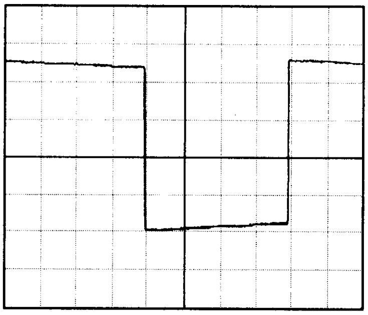
⑳ TP141 1.0Vp-p
0.2V/10μs/div.
[REC]



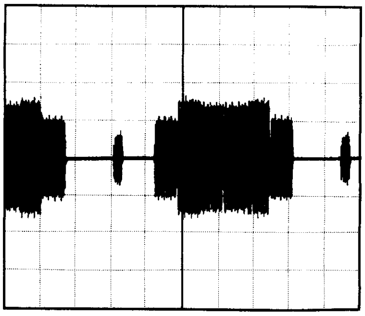
⑳ TP141 1.0Vp-p
0.2V/10μs/div.
[PLAY]



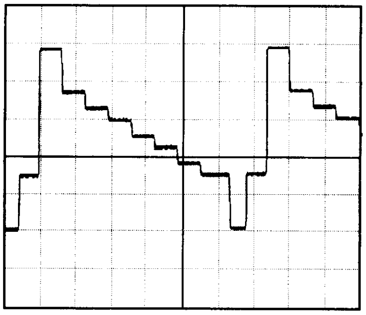
㉑ J1005-3 800mVp-p
0.5V/5ms/div.
[PLAY]



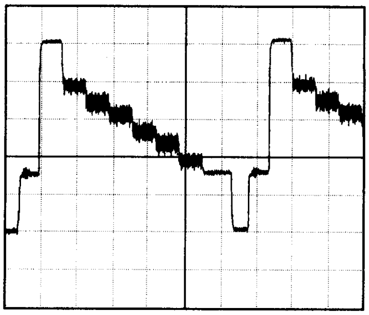
㉒ J1005-2 4.3Vp-p
1.0V/5ms/div.
[PLAY]



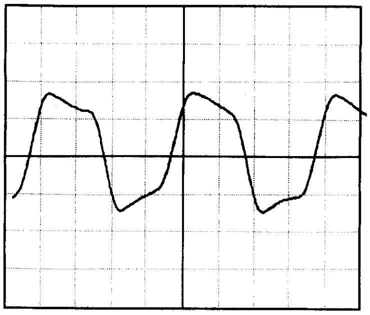
㉓ CN105-12 976mVp-p
0.2V/10μs/div.
[REC]



㉔ CN105-14 976mVp-p
0.2V/10μs/div.
[REC]

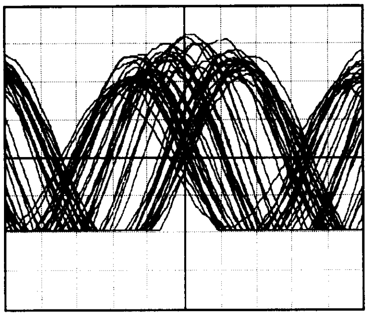


㉕ CN103-3 1.02Vp-p
0.2V/10μs/div.
[REC]

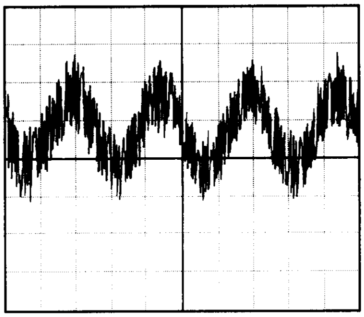


㉖ TP191 150mVp-p
50mV/50ns/div.
[REC]

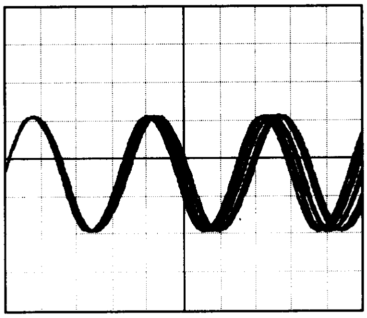
6-4. AUDIO CIRCUIT (For VM-EX220P)



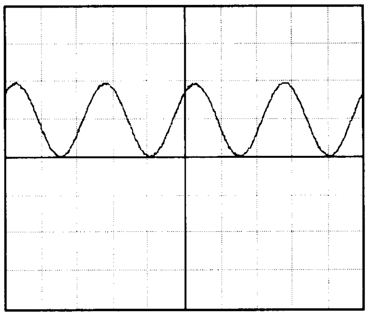
① *IC201-4 50.7mVp-p*
10mV/100μs/div.



② *IC201-6 799mVp-p*
200mV/1ms/div.

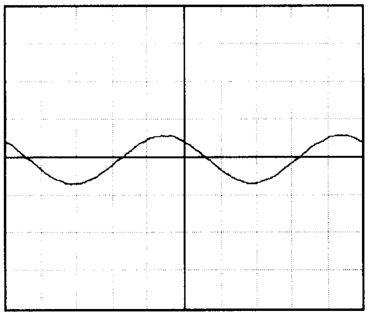


③ *IC201-8 314mVp-p*
100mV/200ns/div.

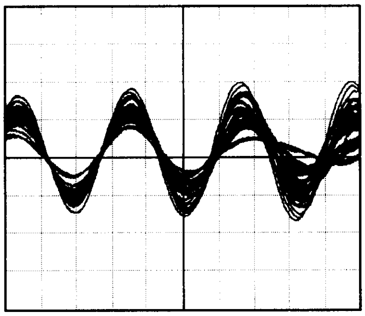


④ *IC201-33 384mVp-p*
150mV/1ms/div.

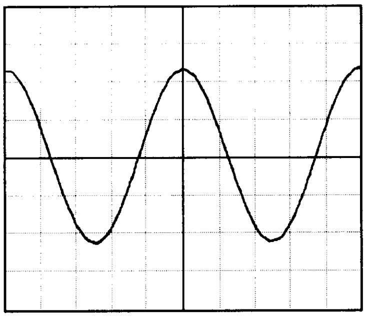
6-5. AUDIO CIRCUIT (For VM-EX280P/370P)



① *IC201-2.62 25.7Vp-p*
20mV/200μs/div.

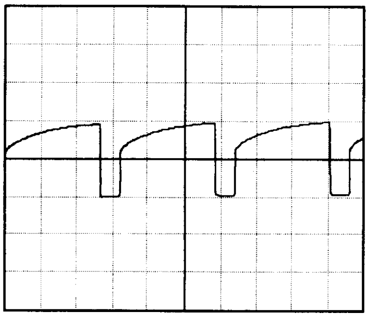


② *IC201-24 1.8Vp-p*
0.1V/200ns/div.

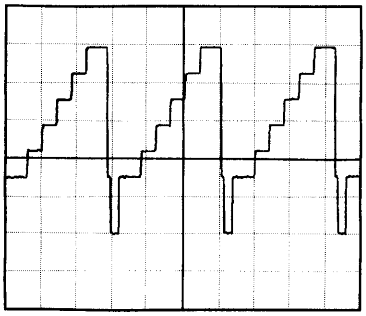


③ *IC201-47.50 917mVp-p*
0.2V/200μs/div.

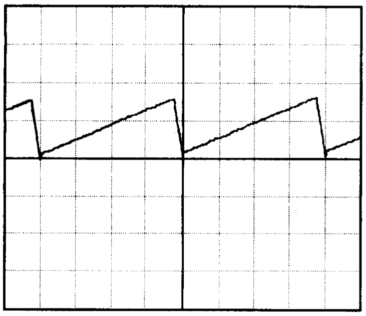
6-6. VIEWFINDER CIRCUIT (For VM-EX220P/280P)



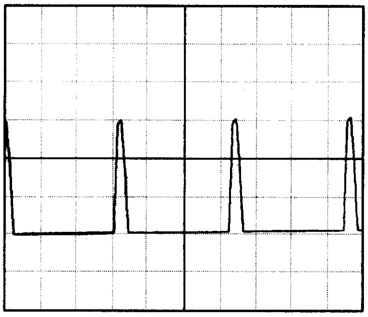
① *IC971-16 2.0Vp-p*
1.0V/20μs/div.



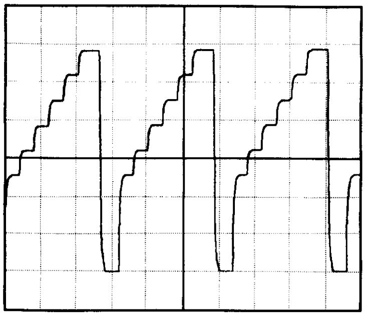
② *IC971-11 0.98Vp-p*
0.2V/20μs/div.



③ *CN972-1 1.02Vp-p*
1.0V/5ms/div.

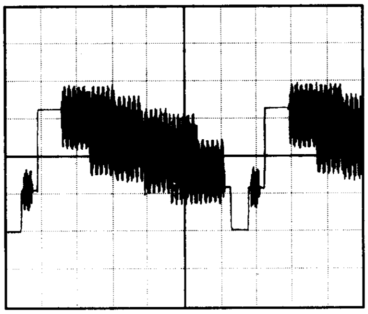


④ *FBT-4 60.0Vp-p*
20.0V/20μs/div.

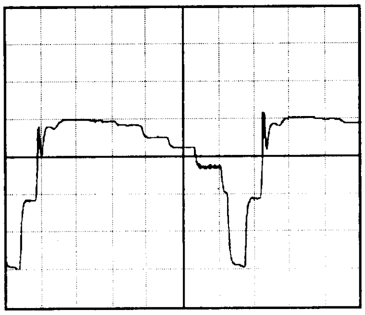


⑤ *D9701 Cathode 1.02Vp-p*
2.0V/20μs/div.

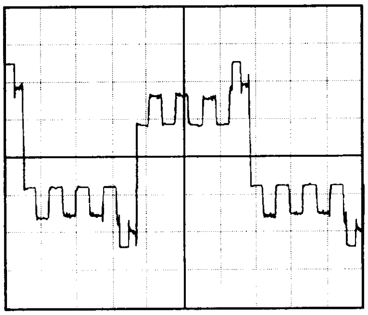
6-7. VIEWFINDER CIRCUIT (For VM-EX370P)



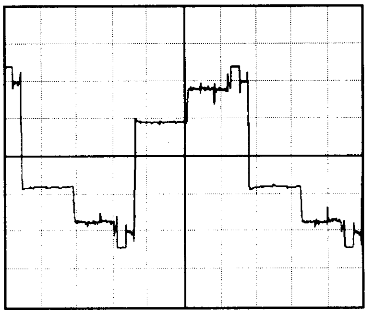
① *CN971-3 780mVp-p*
0.2V/10μs/div.
[AC]



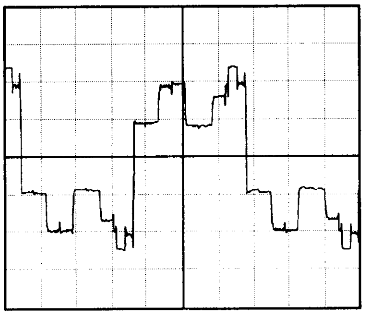
② *IC971-2 0.8Vp-p*
0.2V/10μs/div.
[AC]



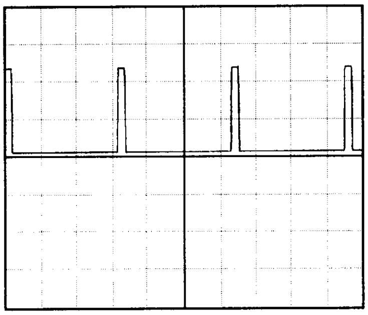
③ *IC971-24 9.9Vp-p*
2.0V/20μs/div.



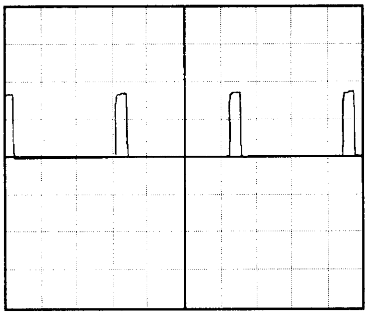
④ *IC971-22 9.8Vp-p*
2.0V/20μs/div.



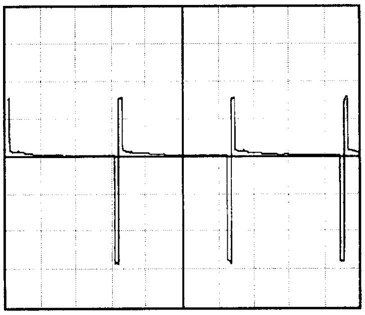
⑤ *IC971-20 9.8Vp-p*
2.0V/20μs/div.



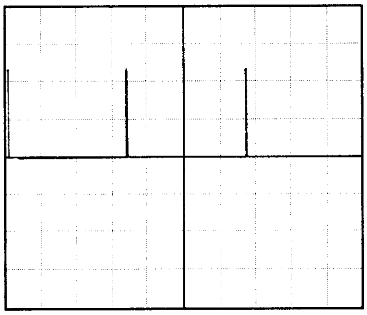
⑥ *IC972-27 4.5Vp-p*
2.0V/20μs/div.



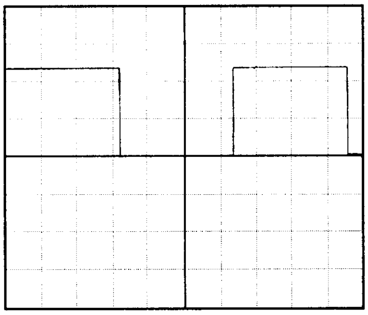
⑦ *IC972-36 3.4Vp-p*
2.0V/20μs/div.



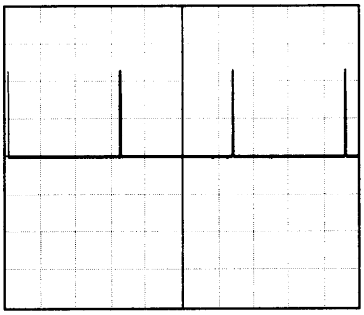
⑧ *IC972-37 4.4Vp-p*
1.0V/20μs/div.



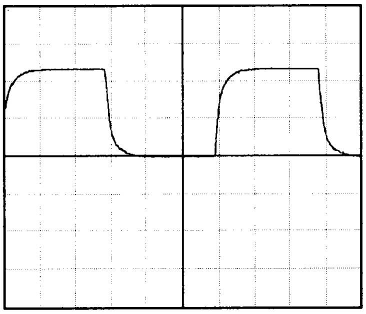
⑨ *CN973-4 12Vp-p*
5.0V/5ms/div.



⑩ *CN973-6 12Vp-p*
5.0V/20μs/div.



⑪ *CN973-9 12Vp-p*
5.0V/20μs/div.



⑫ *CN973-11 12Vp-p*
5.0V/100ns/div.

7. VOLTAGE CHART

7-1. CAMERA CIRCUIT (TC-1 BOARD)

MODE	CAMERA		MODE	CAMERA		MODE	CAMERA		MODE	CAMERA		MODE	CAMERA		MODE	CAMERA		MODE	CAMERA	
PIN NO.	ON	STOP	PIN NO.	ON	STOP	PIN NO.	ON	STOP	PIN NO.	ON	STOP	PIN NO.	ON	STOP	PIN NO.	ON	STOP	PIN NO.	ON	STOP
IC931			50	2.8	–	35	4.8	–	4	0.0	0.0	5	3.0	3.0	5	–	–	E	5.7	5.7
1	–	–	51	4.9	–	36	4.8	–	5	–	–	6	0.0	0.0	6	4.9	4.9			
2	–	–	52	2.8	–	37	4.8	–	6	–	–	Q9302			Q9331					
3	–	–	53	–	–	38	4.8	–	7	–	–	1	0.5	0.0	1	0.5	0.5			
4	4.9	4.9	54	2.7	2.7	39	–	–	8	–	–	2	1.0	1.0	2	1.0	1.0			
5	0.0	0.0	55	3.8	–	40	4.9	–	9	–	–	3	4.9	4.9	3	4.9	4.9			
6	4.9	4.9	56	4.9	4.9	41	0.0	–	10	4.8	4.8	4	2.1	2.1	4	2.1	–			
7	4.9	–	57	–	–	42	0.4	–	11	0.0	0.0	5	2.7	2.7	5	2.7	–			
8	0.0	0.0	58	2.4	–	43	4.9	–	12	6.6	6.6	6	2.7	2.7	6	2.7	–			
9	4.9	4.9	59	2.3	–	44	0.0	–	13	–	–	Q9304			Q9332					
10	4.8	–	60	4.9	4.9	45	3.2	–	14	0.1	–	1	2.1	2.1	1	0.5	0.5			
11	4.8	–	61	0.0	0.0	46	1.5	–	15	–	–	2	2.7	2.7	2	1.0	1.0			
12	4.8	–	62	0.0	0.0	47	–	–	16	0.0	0.0	3	4.8	4.8	3	4.9	4.9			
13	4.8	–	63	–	0.0	48	4.8	–	17	–	–	4	2.1	2.1	4	2.1	–			
14	4.8	–	64	0.0	0.0	49	–	–	18	0.1	–	5	2.7	2.7	5	2.7	–			
15	4.8	–	IC932			50	4.9	–	19	–	–	6	4.9	4.9	6	2.7	–			
16	4.8	–	1	–	–	51	–	–	20	6.6	6.6	Q9305			IC937					
17	0.0	0.0	2	–	–	52	4.9	–	21	1.4	–	1	0.5	0.5	1	4.9	4.9			
18	4.8	–	3	–	–	53	4.8	4.8	22	14.2	–	2	1.0	1.0	2	–	–			
19	4.8	–	4	–	–	54	2.8	–	23	12.2	–	3	4.9	4.9	3	–	–			
20	4.9	4.9	5	2.1	–	55	2.6	–	24	7.3	–	4	2.1	2.1	4	0.0	0.0			
21	0.0	0.0	6	3.5	–	56	0.0	0.0	25	2.4	–	5	2.7	2.7	5	0.0	0.0			
22	0.0	0.0	7	–	–	57	–	–	26	2.4	–	6	2.7	2.7	6	–	–			
23	4.9	4.9	8	0.0	–	58	–	–	27	0.0	–	Q9306			7	–	–			
24	4.9	4.9	9	0.0	0.0	59	–	–	28	–	–	1	0.5	0.5	8	4.9	–			
25	4.9	4.9	10	0.0	0.0	60	–	–	29	4.9	4.9	2	1.0	1.0	9	5.3	–			
26	0.0	0.0	11	2.9	–	61	4.9	–	30	4.9	–	3	4.9	4.9	10	–	–			
27	2.9	–	12	–	–	62	4.9	–	IC935			4	2.1	2.1	11	–	–			
28	4.9	–	13	0.0	0.0	63	4.9	–	1	1.9	1.7	5	2.7	0.0	12	–	–			
29	4.9	–	14	4.9	4.9	64	4.7	–	2	1.8	1.7	6	2.7	2.7	13	2.7	–			
30	4.5	–	15	4.8	–	65	4.5	–	3	1.9	1.7	Q9311			14	–	–			
31	0.1	–	16	4.9	–	66	0.0	–	4	0.0	0.0	1	2.0	2.0	15	–	–			
32	0.0	0.0	17	4.9	–	67	–	–	5	2.5	0.8	2	2.7	2.7	16	5.3	–			
33	–	–	18	–	–	68	–	–	6	2.5	0.7	3	0.0	0.0	Q9441					
34	2.7	2.7	19	4.9	–	69	0.0	–	7	3.3	4.9	4	2.7	2.7	1	–	–			
35	2.7	2.7	20	–	–	70	0.0	–	8	4.9	4.9	5	2.0	2.0	2	4.9	–			
36	–	–	21	–	–	71	0.0	–	IC936			6	4.9	4.9	3	–	–			
37	–	–	22	–	–	72	–	–	1	2.7	1.4	Q9315			4	–	–			
38	3.7	3.7	23	4.4	–	73	–	–	2	2.4	2.4	B	2.7	–	5	4.9	–			
39	3.9	3.9	24	0.0	–	74	–	–	3	2.4	2.4	C	–	–	6	–	–			
40	2.9	2.7	25	–	–	75	4.9	4.9	4	0.0	0.0	E	0.0	–	Q9442					
41	2.7	2.7	26	–	–	76	5.0	5.0	5	0.0	0.0	Q9320			1	–	–			
42	3.5	–	27	–	–	77	0.0	0.0	6	4.8	–	B	2.4	2.4	2	4.9	–			
43	3.8	–	28	–	–	78	0.0	–	7	2.5	2.5	C	4.9	4.9	3	–	–			
44	3.8	3.8	29	–	–	79	0.0	0.0	8	4.9	4.9	E	1.9	1.9	4	–	–			
45	3.8	–	30	0.1	–	80	4.9	–	Q9301			Q9322			5	4.9	–			
46	0.0	0.0	31	4.8	–	IC933			1	3.3	2.3	1	–	–	6	–	–			
47	4.8	4.8	32	4.8	–	1	0.0	0.0	2	2.7	2.7	2	–	–	Q9440					
48	–	–	33	4.8	–	2	0.0	–	3	0.0	0.0	3	4.9	4.9	B	4.6	–			
49	0.0	0.0	34	4.8	–	3	–	–	4	3.3	2.3	4	–	–	C	5.3	–			

7-2. SERVO/SYSTEM CONTROL CIRCUIT

MODE / PIN NO.	STOP	REC	PLAY	F.FWD / REW	SERCH REV/FWD	PAUSE REC	PAUSE PLAY	MODE / PIN NO.	STOP	REC	PLAY	F.FWD / REW	SERCH REV/FWD	PAUSE REC	PAUSE PLAY	MODE / PIN NO.	STOP	REC	PLAY	F.FWD / REW	SERCH REV/FWD	PAUSE REC	PAUSE PLAY
IC321								11	5.0	0.0	5.0	5.0	5.0	0.0	5.0	61	0.7	0.7	0.0	0.7	0.0	0.7	0.0
1	–	–	–	–	–	–	–	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62	4.7	4.6	4.6	4.7	4.6	4.7	4.6
2	4.8	4.8	4.8	4.8	4.8	4.8	4.8	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63	4.9	0.0	0.0	4.9	4.9	0.0	4.9
3	0.1	0.2	0.2	0.2	0.2	0.1	0.1	14	0.0	2.4	2.4	0.0	2.4	0.0	2.4	64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	4.3	3.9	4.0	4.1	4.0	4.1	4.3	15	0.0	0.0	0.0	0.0	0.1	0.0	0.1	65	4.9	4.9	4.9	4.9	4.8	4.9	4.9
5	4.9	4.9	4.9	4.9	4.9	4.9	4.9	16	4.8	4.7	4.7	4.7	4.7	4.8	4.7	66	4.8	4.7	4.7	4.8	4.7	4.8	4.7
6	4.9	4.9	4.9	4.9	4.9	4.9	4.9	17	4.8	4.7	0.0	4.8	0.0	4.8	0.0	67	4.8	4.7	4.7	4.8	4.7	4.8	4.7
7	–	–	–	–	–	–	–	18	4.8	4.7	0.0	4.8	0.0	4.8	0.0	68	4.9	4.9	4.9	4.9	4.8	4.9	4.9
8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69	4.5	4.5	4.5	4.5	4.5	4.5	4.5
9	2.7	2.7	2.7	2.7	2.7	2.7	2.7	20	4.9	4.9	4.9	4.9	4.9	4.9	4.9	70	4.9	4.9	4.9	4.9	4.9	4.9	4.9
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	4.8	4.8	4.8	4.8	4.8	4.8	4.8	71	4.9	4.9	4.9	4.9	4.9	4.9	4.9
11	–	–	–	–	–	–	–	22	0.0	0.0	4.7	0.0	4.7	0.0	4.7	72	4.9	4.9	4.9	4.9	4.9	4.9	4.9
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23	–	–	–	–	–	–	–	73	4.9	4.9	4.9	4.9	4.9	4.9	4.9
13	0.0	0.0	0.0	0.0	0.1	0.1	0.0	24	4.9	0.0	4.8	4.9	4.9	4.9	4.9	74	4.9	4.9	4.9	4.9	4.9	4.9	4.9
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25	4.9	0.0	4.9	4.9	4.9	4.9	4.9	75	4.9	4.9	4.9	4.9	4.9	4.9	4.9
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26	–	–	–	–	–	–	–	76	4.9	4.9	4.9	4.9	4.9	4.9	4.9
16	0.1	0.1	0.1	0.0	0.2	0.2	0.1	27	0.0	4.9	0.0	0.0	0.0	0.0	0.0	77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	–	–	–	–	–	–	–	28	0.0	0.0	0.0	0.0	4.8	0.0	4.8	80	–	–	–	–	–	–	–
18	4.9	4.9	4.9	4.9	4.9	4.9	4.9	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81	–	–	–	–	–	–	–
19	4.4	4.4	4.4	4.4	4.4	4.4	4.4	30	–	–	–	–	–	–	–	82	4.0	4.0	4.0	4.0	4.0	4.0	4.0
20	4.9	4.9	4.9	4.9	4.9	4.9	4.9	31	4.9	0.0	0.0	*3	*3	4.9	4.9	83	0.1	0.1	0.6	0.1	0.6	0.1	0.6
IC323								32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84	4.8	4.8	4.8	4.8	4.8	4.8	4.8
1	2.0	2.4	2.0	2.0	2.0	2.0	2.0	33	5.0	5.0	5.0	5.0	5.0	5.0	5.0	85	4.9	4.9	4.9	4.9	4.9	4.9	4.9
2	4.4	4.4	4.4	4.4	4.4	4.4	4.4	34	4.8	4.9	4.9	4.9	4.9	4.9	4.9	86	4.9	4.9	4.9	4.9	4.9	4.9	4.9
3	–	–	–	–	–	–	–	35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87	4.9	4.9	4.9	4.9	4.9	4.9	4.9
4	4.8	4.8	4.8	4.8	4.8	4.8	4.8	36	0.0	4.9	4.9	4.9	4.9	4.9	4.9	88	–	–	–	–	–	–	–
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37	4.9	4.9	4.9	*4	*4	4.9	4.9	89	–	–	–	–	–	–	–
6	2.0	2.3	2.3	2.0	2.2	2.3	2.4	38	4.9	4.9	4.9	4.8	4.9	4.9	4.9	90	2.4	2.4	2.4	2.4	2.4	2.4	2.4
7	4.9	4.9	4.9	4.9	4.9	4.9	4.9	39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91	4.9	4.9	4.9	4.9	4.9	4.9	4.9
8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92	4.9	4.9	4.9	4.9	4.9	4.9	4.9
IC341								41	4.9	4.9	4.9	4.9	4.9	4.9	4.9	93	2.8	2.7	2.8	2.8	2.8	2.8	2.8
1	4.9	4.9	4.9	4.9	4.9	4.9	4.9	42	4.9	0.0	0.0	0.0	0.0	0.0	0.0	94	2.2	2.2	2.2	2.2	2.2	2.2	2.2
2	–	–	–	–	–	–	–	43	4.9	0.0	0.0	0.0	0.0	4.9	4.9	95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	5.0	5.0	5.0	5.0	5.0	5.0	5.0	44	–	–	–	–	–	–	–	96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	3.2	3.1	3.2	3.1	3.1	3.1	3.1	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	4.9	4.9	4.9	4.9	4.9	4.9	4.9	46	–	–	–	–	–	–	–	98	0.0	0.0	0.0	1.0	0.4	0.0	0.0
6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99	0.0	*6	0.0	1.0	0.4	0.0	0.0
7	5.1	5.1	5.1	5.1	5.1	5.1	5.1	48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	102	4.9	4.9	4.8	4.9	4.8	4.9	4.8
8	6.0	6.0	6.0	6.0	6.0	6.0	6.0	49	4.9	4.9	4.9	4.9	4.9	4.9	4.9	103	4.9	4.9	4.8	4.9	4.8	4.9	4.8
IC351								50	2.2	2.2	2.2	2.2	2.2	2.2	2.2	104	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	51	2.2	2.2	2.2	2.2	2.3	2.2	2.3	105	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	1.4	1.4	*1	*2	0.0	0.0	52	4.9	4.9	4.9	4.9	4.9	4.9	4.9	106	2.4	2.4	2.4	2.4	2.4	2.4	2.4
3	0.0	1.4	1.5	1.5	2.5	1.4	1.4	53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	107	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	4.9	4.9	4.9	4.9	4.9	4.9	4.9	54	0.8	0.8	0.9	0.9	0.9	0.8	0.9	108	3.1	2.9	2.4	2.9	2.4	2.9	2.4
5	4.9	5.0	5.0	5.0	4.9	4.9	5.0	55	0.7	0.7	0.7	0.7	0.7	0.7	0.7	109	3.1	2.9	2.4	2.9	2.4	3.0	2.4
6	–	–	–	–	–	–	–	56	0.1	0.1	0.1	1.1	0.6	0.1	0.1	110	2.3	2.3	2.4	2.3	2.4	2.3	2.4
7	5.0	5.0	5.0	5.0	5.0	5.0	5.0	57	0.0	1.7	0.1	1.7	0.6	0.0	0.0	111	2.3	2.3	2.4	2.3	2.4	2.3	2.4
8	5.0	5.0	5.0	5.0	5.0	5.0	5.0	58	0.0	4.9	0.0	0.0	0.0	*5	0.0	112	4.9	4.8	2.4	4.9	2.4	4.9	2.4
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59	4.9	4.9	4.9	4.9	4.9	4.9	4.9	113	4.9	4.8	2.4	4.9	2.4	4.9	2.4
10	0.0	5.0	0.0	0.0	0.0	5.0	0.0	60	4.9	4.9	0.0	4.9	0.0	4.9	0.0	114	–	–	–	–	–	–	–

*1 3.9／3.5　*2 1.2／2.3　*3 4.9／0.0　*4 0.0／4.9　*5 0.1～4.9　*6 0.2～1.8

MODE / PIN NO.	STOP	REC	PLAY	FFWD / REW	SERCH REV / FWD	PAUSE REC	PAUSE PLAY
115	2.4	2.5	2.4	2.5	2.4	2.4	2.4
116	2.4	2.4	2.4	2.4	2.4	2.4	2.4
117	2.4	2.4	2.4	2.4	2.4	2.4	2.4
118	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119	4.9	4.9	4.8	4.9	4.8	4.9	4.8
120	0.0	0.1	0.1	0.1	0.1	0.1	0.1
121	0.0	2.4	2.4	2.4	2.4	2.4	2.4
122	0.0	2.5	2.5	2.4	2.4	0.0	0.0
123	4.8	4.8	4.8	4.8	4.8	4.8	4.8
124	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	0.0	4.9	4.9	4.9	4.9	4.9	4.9
126	4.9	4.9	4.9	4.9	4.9	4.9	4.9
127	0.1	0.2	0.2	0.2	0.1	0.1	0.1
128	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC361							
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.5	0.7	0.8	*1	*2	0.4	0.4
4	0.1	1.5	1.6	*3	*4	0.1	0.1
5	6.0	6.0	6.0	6.0	6.0	6.0	6.0
6	5.0	4.9	5.0	5.0	5.0	5.0	5.0
7	4.9	4.9	4.9	4.9	4.9	4.9	4.9
8	0.7	0.7	0.7	0.7	0.7	0.7	0.7
9	–	–	–	–	–	–	–
10	2.5	2.5	2.5	2.5	2.5	2.5	2.5
11	2.5	2.5	2.5	2.5	2.5	2.5	2.5
12	2.5	2.5	2.5	2.5	2.5	2.5	2.5
13	0.0	2.5	2.5	2.4	2.4	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	4.9	0.0	0.0	*5	*5	4.9	4.9
19	–	–	–	–	–	–	–
20	1.5	1.5	1.5	1.5	1.5	1.5	1.5
21	1.5	1.5	1.5	1.5	1.5	1.5	1.5
22	1.8	1.9	1.9	1.9	1.9	1.9	1.9
23	1.9	1.9	1.9	1.9	1.9	1.9	1.9
24	2.4	2.3	2.4	2.4	2.4	2.3	2.4
25	2.4	2.3	2.4	2.4	2.4	2.4	2.4
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.1	0.8	0.8	*1	*2	0.1	0.1
28	0.1	0.8	0.8	*1	*2	0.1	0.1
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC381							
1	0.0	1.1	1.1	1.1	1.1	1.1	1.0
2	0.0	1.1	1.1	1.1	1.1	1.1	1.0
3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
4	0.0	4.9	4.9	4.9	4.9	4.9	4.9

MODE / PIN NO.	STOP	REC	PLAY	FFWD / REW	SERCH REV / FWD	PAUSE REC	PAUSE PLAY
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	2.0	2.0	2.0	2.0	2.0	2.0
7	6.0	6.0	6.0	6.0	6.0	6.0	6.0
8	5.0	5.0	5.0	5.0	5.0	5.0	5.0
9	0.0	1.3	1.3	1.3	1.3	1.3	1.3
10	5.0	0.2	0.2	0.2	0.2	0.2	0.2
11	0.0	1.3	1.3	1.3	1.3	1.3	1.3
12	0.0	1.4	1.4	1.4	1.4	1.4	1.4
13	0.0	1.4	1.4	1.4	1.4	1.4	1.4
14	0.0	1.4	1.4	1.4	1.4	1.4	1.4
15	0.0	1.4	1.4	1.4	1.4	1.4	1.4
16	0.0	1.4	1.5	1.5	1.5	1.4	1.4
17	5.0	1.9	1.9	1.9	1.9	1.9	1.9
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.9	0.9	0.9	0.9	1.0	0.9
20	0.0	0.9	0.9	0.9	0.9	1.0	0.9
21	0.0	1.1	1.1	1.1	1.1	1.1	1.2
22	0.0	0.4	0.4	0.4	0.4	0.4	0.4
23	0.0	0.4	0.4	0.4	0.4	0.4	0.4
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	1.2	1.2	1.2	1.2	1.2	1.2
26	0.0	1.2	1.2	1.2	1.2	1.2	1.2
27	0.0	1.2	1.2	1.2	1.2	1.2	1.2
28	0.0	1.1	1.1	1.1	1.1	1.1	1.1
29	0.0	1.1	1.1	1.1	1.1	1.1	1.1
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC391							
1	4.4	4.4	4.4	4.4	4.4	4.4	4.4
2	3.9	3.8	3.9	3.9	3.8	3.9	3.9
3	5.0	5.0	5.0	5.0	5.0	5.0	5.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	5.0	5.0	5.0	5.0	5.0	5.0	5.0
7	2.4	2.4	2.4	2.4	2.4	2.4	2.4
8	2.4	2.4	2.4	2.4	2.4	2.4	2.4
9	2.2	2.3	2.2	2.3	2.3	2.2	2.2
10	5.7	5.6	5.7	5.6	5.7	5.7	5.7
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.4	0.3	0.3	0.8	0.2	0.5	0.4
15	5.0	5.0	5.0	5.0	5.0	5.0	5.0
16	0.4	0.3	0.4	0.8	0.1	0.6	0.5
17	5.0	5.0	5.0	5.0	5.0	5.0	5.0
18	3.3	3.3	3.3	3.3	3.3	3.3	3.3
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	–	–	–	–	–	–	–
Q3201							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	1.8	1.8	1.8	1.8	1.8	1.8	1.8

MODE / PIN NO.	STOP	REC	PLAY	FFWD / REW	SERCH REV / FWD	PAUSE REC	PAUSE PLAY
B	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Q3301							
1	4.3	4.3	4.3	3.3	3.8	4.3	4.3
2	3.7	2.4	3.6	2.4	3.2	3.6	3.6
3	0.0	1.7	1.7	1.7	0.6	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.1	0.1	0.1	1.2	0.6	0.1	0.1
Q3351							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	3.7	0.1	3.7	3.7	3.7	*6	3.7
B	0.0	4.9	0.0	0.0	0.0	*7	0.0
Q3352							
E	4.9	4.9	4.9	4.9	4.9	4.9	4.9
C	4.9	4.9	4.9	4.9	4.9	4.9	4.9
B	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Q3501							
E	4.9	4.9	4.9	4.9	4.9	4.9	4.9
C	4.9	4.9	4.8	4.9	4.8	4.9	4.8
B	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Q3502							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	4.9	5.0	0.1	4.9	0.1	4.9	0.1
B	0.0	0.0	4.8	0.0	4.8	0.0	4.8
Q3503							
1	4.9	0.0	0.0	0.0	0.0	0.0	0.0
2	4.9	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	1.6	1.6	*8	*4	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	1.7	1.7	1.8	1.7	1.7	1.7
Q3504							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	4.1	4.1	0.0	4.1	0.0	4.1	0.0
B	0.7	0.7	0.0	0.7	0.0	0.7	0.0
Q3505							
E	4.0	4.0	4.0	4.0	4.0	4.0	4.0
C	4.1	4.1	0.0	4.1	0.0	4.1	0.0
B	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Q3506							
E	0.7	0.7	0.0	0.7	0.0	0.7	0.0
C	4.8	4.8	4.8	4.8	4.8	4.8	4.8
B	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Q3551							
S	1.1	1.1	1.1	1.1	1.1	1.1	1.1
D	4.9	4.9	4.9	4.9	4.9	4.9	4.9
G	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Q3571							
E	1.8	1.8	1.8	1.8	1.8	1.8	1.8
C	5.0	5.0	0.0	5.0	5.0	5.0	5.0
B	2.4	2.4	2.3	2.4	2.3	2.4	2.3
Q3901							

*1 2.4／2.3 *2 1.4／1.5 *3 4.7／4.5 *4 2.8／2.9 *5 4.9／0.0 *6 0.1～3.7 *7 0.0～4.8 *8 4.8／4.4

7-3 VIDEO CIRCUIT

MODE / PIN NO.	STOP	REC	PLAY	F·FWD / REW	SERCH REV/FWD	PAUSE REC	PAUSE PLAY
E	6.0	6.0	6.0	6.0	6.0	6.0	6.0
C	5.0	5.0	5.0	5.0	5.0	5.0	5.0
B	5.7	5.6	5.7	5.6	5.7	5.7	5.7
IC351	**VM-EX280P. VM-EX370P**						
78	4.7	4.7	4.7	4.7	4.7	4.7	4.7
79	4.7	4.7	4.7	4.7	4.7	4.7	4.7
100	4.8	4.8	4.8	4.8	4.8	4.8	4.8
101	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IC375							
1	6.0	6.0	6.0	6.0	6.0	6.0	6.0
2	–	–	–	–	–	–	–
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	5.0	5.0	5.0	5.0	5.0	5.0	5.0
5	–	–	–	–	–	–	–
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	–	–	–	–	–	–	–
8	5.0	5.0	5.0	5.0	5.0	5.0	5.0
9	4.8	4.8	4.8	4.8	4.8	4.8	4.8
10	0.3	0.3	0.3	0.3	0.3	0.3	0.3
11	4.3	4.3	4.3	4.3	4.3	4.3	4.3
12	0.3	0.3	0.3	0.3	0.3	0.3	0.3
13	–	–	–	–	–	–	–
14	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Q3751							
1	4.7	4.7	4.7	4.7	4.7	4.7	4.7
2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
3	4.7	4.7	4.7	4.7	4.7	4.7	4.7
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.3	0.3	0.3	0.3	0.3	0.3	0.3
IC351	**VM-EX370P**						
91	4.9	4.9	0.0	1.5	0.0	1.2	0.0
IC358							
1	0.0	0.0	4.9	3.0	4.8	2.5	4.9
2	0.0	2.8	1.0	2.0	1.6	2.2	1.6
3	2.5	2.5	2.5	2.5	2.5	2.5	2.5
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	1.3	1.3	1.3	1.3	1.3	1.3	1.3
6	0.0	0.0	4.9	2.9	4.7	2.4	4.8
7	4.9	4.9	0.0	1.5	0.0	1.2	0.0
8	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Q3581							
E	0.5	0.5	0.5	0.5	0.5	0.5	0.5
C	2.8	2.8	2.8	2.8	2.8	2.8	2.8
B	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Q3582							
E	3.3	3.3	1.5	2.7	2.3	2.3	2.3
	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	2.8	2.8	2.7	2.8	2.8	2.8	2.8
Q3583							
E	0.0	2.8	1.0	2.0	1.6	2.2	1.6
C	4.9	4.9	4.9	4.9	4.9	4.9	4.9
B	3.3	3.3	1.5	2.6	2.1	2.3	2.1
IC101							
1	3.0	3.0	3.0	3.0	3.0	3.0	3.0
2	2.2	2.2	2.1	2.2	2.1	2.2	2.1
3	2.2	2.2	2.1	2.2	2.1	2.2	2.1
4	2.0	2.0	2.0	2.0	2.0	2.0	2.0
5	2.3	2.3	2.3	2.3	2.3	2.3	2.3
6	2.0	2.0	2.0	2.0	2.0	2.0	2.0
7	0.5	0.5	1.8	0.5	1.8	0.5	1.8
8	1.8	1.8	0.0	1.8	0.0	1.8	0.0
9	2.1	2.1	2.1	2.1	2.1	2.1	2.1
10	2.0	2.0	2.0	2.0	2.0	2.0	2.0
11	2.0	2.0	2.0	2.0	2.0	2.0	2.0
12	2.0	2.0	2.0	2.0	2.0	2.0	2.0
13	2.2	2.2	2.3	2.2	2.3	2.2	2.3
14	1.4	1.4	1.7	1.4	1.7	1.4	1.7
15	3.2	3.2	3.1	3.2	3.1	3.2	3.1
16	2.1	2.1	2.9	2.1	2.9	2.1	2.9
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	1.4	1.4	3.0	1.4	3.0	1.4	3.0
19	2.3	2.3	2.1	2.3	2.1	2.3	2.1
20	1.2	1.2	2.8	1.2	2.8	1.2	2.8
21	2.3	2.3	2.1	2.3	2.1	2.3	2.1
22	2.1	2.1	2.8	2.1	2.8	2.1	2.8
23	2.6	2.6	2.7	2.6	2.7	2.6	2.7
24	0.2	0.2	0.2	0.2	0.1	0.2	0.1
25	4.7	4.7	4.6	4.7	4.6	4.7	4.6
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	2.5	2.5	2.5	2.5	2.5	2.5	2.5
28	2.3	2.3	2.4	2.3	2.4	2.3	2.4
29	2.2	2.2	4.1	2.2	4.1	2.2	4.1
30	2.2	2.2	2.2	2.2	2.2	2.2	2.2
31	1.8	1.8	1.8	1.8	1.8	1.8	1.8
32	1.9	1.9	1.9	1.9	1.9	1.9	1.9
33	2.3	2.3	2.3	2.3	2.3	2.3	2.3
34	2.1	2.1	2.1	2.1	2.1	2.1	2.1
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	2.3	2.3	2.3	2.3	2.4	2.3	2.4
37	2.0	2.0	1.9	2.0	2.0	2.0	2.0
38	4.8	4.8	4.8	4.8	4.8	4.8	4.8
39	2.0	2.2	0.0	2.0	0.0	2.0	0.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	0.0	0.0	1.7	0.0	1.7	0.0	1.7
42	4.0	4.0	4.0	4.0	4.0	4.0	4.0
43	3.0	3.0	3.0	3.0	3.0	3.0	3.0
44	3.2	3.2	3.2	3.2	3.2	3.2	3.2
45	0.3	0.3	3.0	0.3	3.0	0.3	3.0
46	0.0	0.7	0.7	0.0	0.7	0.0	0.7
47	4.6	4.6	4.5	4.6	4.5	4.6	4.5
48	4.4	4.2	4.2	4.1	4.3	4.4	4.4
49	4.7	4.7	4.7	4.7	4.7	4.7	4.7

***4** 2.8/2.9 ***8** 4.8/4.4

MODE / PIN NO.	STOP	REC	PLAY	FFWD / REW	SERCH REV/FWD	PAUSE REC	PAUSE PLAY
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
51	2.2	2.2	2.2	2.2	2.2	2.2	2.2
52	2.2	2.2	0.0	2.2	0.0	2.2	0.0
53	2.6	2.6	2.6	2.6	2.6	2.6	2.6
54	2.3	2.3	2.3	2.3	2.3	2.3	2.3
55	1.8	1.8	1.8	1.8	1.8	1.8	1.8
56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57	1.9	1.9	2.0	1.9	2.0	1.9	2.0
58	4.1	4.1	4.1	4.1	4.1	4.1	4.1
59	3.0	3.0	2.9	3.0	2.9	3.0	2.9
60	0.1	0.1	0.1	0.1	0.1	0.1	0.1
61	2.2	2.2	2.1	2.2	2.1	2.2	2.1
62	2.0	2.0	2.0	2.0	2.0	2.0	2.0
63	1.9	1.9	1.9	1.9	1.9	1.9	1.9
64	2.0	2.0	2.0	2.0	2.0	2.0	2.0
IC111							
1	0.0	0.0	1.9	0.0	2.0	0.0	2.0
2	0.0	0.0	2.4	0.0	2.4	0.0	2.4
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.1	0.1	1.7	0.1	1.7	0.1	1.7
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	2.3	0.0	2.3	0.0	2.3
10	0.0	0.0	4.9	0.0	4.9	0.0	4.9
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	2.0	0.0	2.0	0.0	2.0
13	0.0	0.0	2.0	0.0	2.0	0.0	2.0
14	0.0	0.0	4.9	0.0	4.9	0.0	4.9
15	0.0	0.0	0.8	0.0	0.8	0.0	0.8
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.5	0.6	4.7	0.4	4.7	0.6	4.7
18	0.0	0.0	1.0	0.0	1.0	0.0	1.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC161							
1	0.7	0.7	4.7	0.7	4.7	0.7	4.7
2	1.5	1.5	2.0	1.5	2.0	1.5	2.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.6	0.6	2.5	0.6	2.5	0.6	2.5
5	0.3	0.3	2.7	0.3	2.8	0.3	2.8
6	0.3	0.3	0.7	0.3	0.7	0.3	0.7
7	0.0	0.0	2.1	0.0	2.1	0.0	2.1
8	0.3	0.3	2.6	0.3	2.6	0.3	2.6
9	1.3	1.3	2.0	1.3	2.0	1.3	2.0
10	1.4	1.4	1.0	1.4	0.9	1.4	0.9
11	0.2	0.2	0.2	0.2	0.2	0.2	0.2
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	4.2	0.0	4.2	0.0	4.2

MODE / PIN NO.	STOP	REC	PLAY	FFWD / REW	SERCH REV/FWD	PAUSE REC	PAUSE PLAY
14	0.0	0.0	2.1	0.0	2.1	0.0	2.1
15	0.0	0.0	2.1	0.0	2.1	0.0	2.1
16	0.3	0.3	1.7	0.3	1.7	0.3	1.7
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	1.5	1.5	1.7	1.5	1.7	1.5	1.7
19	0.7	0.7	4.8	0.7	4.8	0.7	4.8
20	0.4	0.4	0.0	0.4	0.0	0.4	0.0
21	0.3	0.3	2.2	0.3	4.7	0.3	4.7
22	0.6	0.6	4.3	0.6	4.6	0.6	4.3
23	0.7	0.7	4.8	0.7	4.8	0.7	4.8
24	0.4	0.4	2.1	0.4	2.1	0.4	2.1
IC191							
1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
2	0.6	0.6	0.4	0.6	0.4	0.6	0.4
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
5	4.1	4.1	4.1	4.1	4.1	4.1	4.1
6	2.4	2.4	2.4	2.4	2.4	2.4	2.4
7	4.3	4.3	4.3	4.3	4.3	4.3	4.3
8	2.6	0.1	2.6	2.6	2.6	2.6	2.6
9	4.5	4.5	3.8	4.4	4.3	4.5	4.4
10	0.0	0.0	2.2	0.0	2.3	0.0	2.3
11	2.5	2.5	2.5	2.5	2.5	2.5	2.5
12	3.0	0.0	0.0	3.0	0.6	3.0	0.1
13	4.0	4.0	4.0	4.0	4.0	4.0	4.0
14	2.1	4.0	2.1	2.1	2.1	2.1	2.1
15	4.0	4.0	4.0	4.0	4.0	4.0	4.0
16	1.8	0.9	1.8	1.8	1.8	1.8	1.8
17	2.4	2.4	2.4	2.4	2.4	2.4	2.4
18	4.9	0.0	4.9	4.9	4.9	4.9	4.9
19	4.5	4.6	4.5	4.5	4.5	4.5	4.5
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	4.5	2.3	2.2	4.5	2.2	2.2	2.2
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	2.0	2.0	2.0	2.0	2.0	2.0	2.0
25	4.9	4.4	4.9	4.9	4.9	4.9	4.9
26	3.2	3.2	3.2	3.2	3.2	3.2	3.2
27	4.9	4.4	4.9	4.9	4.9	4.9	4.9
28	0.6	1.0	0.6	0.6	0.6	0.6	0.6
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	2.6	2.5	2.6	2.6	2.6	2.6	2.6
31	2.6	2.5	2.6	2.6	2.6	2.6	2.6
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.6	1.0	0.6	0.6	0.6	0.6	0.6
34	4.9	4.4	4.9	4.9	4.9	4.9	4.9
35	3.4	3.4	3.4	3.4	3.4	3.4	3.4
36	4.9	4.9	4.9	4.9	4.9	4.9	4.9
37	2.4	2.3	2.4	2.4	2.4	2.4	2.4
38	0.0	2.3	0.0	0.0	0.0	0.0	0.0

MODE / PIN NO.	STOP	REC	PLAY	FFWD / REW	SERCH REV/FWD	PAUSE REC	PAUSE PLAY
39	4.1	4.1	4.1	4.1	4.1	4.1	4.1
40	2.4	2.3	2.4	2.4	2.4	2.4	2.4
41	0.0	2.3	0.0	0.0	0.0	0.0	0.0
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	1.8	1.8	1.8	1.8	1.8	1.8	1.8
44	1.8	1.8	1.8	1.8	1.8	1.8	1.8
45	2.4	2.4	2.4	2.4	2.4	2.4	2.4
46	2.4	2.4	2.4	2.4	2.4	2.4	2.4
47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Q0701							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Q0702							
E	0.0	0.0	0.5	0.0	0.5	0.0	0.5
C	4.8	4.8	3.5	4.8	3.5	4.8	3.5
B	0.0	0.0	1.1	0.0	1.1	0.0	1.1
Q0703							
E	0.0	0.0	1.1	0.0	1.1	0.0	1.1
C	4.8	4.8	4.8	4.8	4.8	4.8	4.8
B	0.5	0.5	1.8	0.5	1.8	0.5	1.8
Q0704							
E	0.0	0.0	1.1	0.0	1.1	0.0	1.1
C	4.8	4.8	3.7	4.8	3.7	4.8	3.7
B	0.5	0.5	1.8	0.5	1.8	0.5	1.8
Q0705							
E	4.1	4.1	2.8	4.1	2.8	4.1	2.8
C	4.8	4.8	4.8	4.8	4.8	4.8	4.8
B	4.8	4.8	3.5	4.8	3.5	4.8	3.5
Q0706							
E	1.4	1.4	1.4	1.4	1.4	1.4	1.4
C	4.8	4.8	4.8	4.8	4.8	4.8	4.8
B	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Q0707							
E	2.1	2.1	2.1	2.1	2.1	2.1	2.1
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Q0713							
E	0.0	0.1	0.0	0.0	0.0	0.1	0.0
C	0.1	0.4	0.0	0.1	0.0	0.4	0.0
B	0.7	0.7	4.8	0.7	4.8	0.7	4.8
Q0709							
E	3.3	3.3	3.3	3.3	3.3	3.3	3.3
C	4.8	4.8	4.8	4.8	4.8	4.8	4.8
B	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Q0710							
E	4.0	4.0	4.0	4.0	4.0	4.0	4.0
C	1.0	1.0	1.0	1.0	1.0	1.0	1.0
B	3.3	3.3	3.3	3.3	3.3	3.3	3.3

MODE PIN NO.	STOP	REC	PLAY	FFWD / REW	SERCH REV / FWD	PAUSE REC	PAUSE PLAY	MODE PIN NO.	STOP	REC	PLAY	FFWD / REW	SERCH REV / FWD	PAUSE REC	PAUSE PLAY	MODE PIN NO.	STOP	REC	PLAY	FFWD / REW	SERCH REV / FWD	PAUSE REC	PAUSE PLAY
Q0711								C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Q1309							
E	1.4	1.4	1.4	1.4	1.4	1.4	1.4	B	0.7	0.7	4.8	0.7	4.8	0.7	4.8	E	0.7	0.7	4.8	0.7	4.8	0.7	4.8
C	3.3	3.3	3.3	3.3	3.3	3.3	3.3	Q1012								C	0.0	0.0	0.0	0.0	1.4	0.0	0.7
B	2.0	2.0	2.0	2.0	2.0	2.0	2.0	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	B	4.6	4.6	4.8	4.6	3.9	4.6	4.2
Q0712								C	0.7	0.7	4.8	0.7	4.8	0.7	4.8	Q1310							
E	1.4	1.4	1.4	1.4	1.4	1.4	1.4	B	0.0	0.0	0.3	0.0	0.3	0.0	0.3	E	0.0	0.0	1.9	0.0	1.9	0.0	1.9
C	3.4	3.4	3.4	3.4	3.4	3.4	3.4	Q1018								C	0.7	0.7	4.8	0.7	4.8	0.7	4.8
B	2.0	2.0	2.0	2.0	2.0	2.0	2.0	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	B	0.4	0.4	2.5	0.4	2.5	0.4	2.5
Q0713								C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Q1312							
E	0.0	0.0	1.1	0.0	1.1	0.0	1.1	B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	E	0.7	0.7	4.8	0.7	4.8	0.7	4.8
C	4.8	4.8	4.8	4.8	4.8	4.8	4.8	Q1019								C	0.7	0.7	0.7	0.7	4.8	0.7	4.8
B	0.7	0.7	1.8	0.7	1.8	0.7	1.8	E	1.5	1.6	1.5	1.6	1.5	1.6	1.5	B	4.6	4.6	4.8	4.6	3.9	4.6	3.9
Q0714								C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Q1313							
E	0.7	0.7	1.8	0.7	1.8	0.7	1.8	B	1.5	1.5	1.4	1.5	1.4	1.5	1.4	E	0.0	0.0	1.8	0.0	1.8	0.0	1.8
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Q1101								C	0.7	0.7	4.8	0.7	4.8	0.7	4.8
B	0.0	0.0	1.1	0.0	1.1	0.0	1.1	E	0.0	0.0	0.9	0.0	0.9	0.0	0.9	B	0.4	0.4	2.4	0.3	2.4	0.4	2.4
Q0717								C	0.8	0.9	4.7	0.8	4.7	0.8	4.7	Q1320							
E	0.7	0.7	1.0	0.7	1.0	0.7	1.0	B	0.2	0.2	1.5	0.2	1.6	0.2	1.6	E	0.0	0.0	3.4	0.0	3.4	0.0	3.4
C	4.1	4.1	3.8	4.1	3.8	4.1	4.1	Q1102								C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	1.4	1.4	1.7	1.4	1.7	1.4	1.7	E	0.2	0.3	2.1	0.2	2.2	0.2	2.2	B	2.8	4.8	2.8	2.8	2.8	2.8	2.8
Q0718								C	0.8	0.9	4.7	0.8	4.7	0.8	4.7	Q1324							
E	1.4	1.4	1.7	1.4	1.7	1.4	1.7	B	0.8	0.9	2.8	0.8	2.8	0.8	2.8	E	0.0	0.0	1.6	0.0	1.6	0.0	1.6
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Q1103								C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	0.7	0.7	1.0	0.7	1.0	0.7	1.0	E	0.0	0.0	1.3	0.0	1.3	0.0	1.3	B	0.0	0.0	1.0	0.0	1.0	0.0	1.0
Q1001								C	0.8	0.9	2.8	0.8	2.9	0.8	2.9	Q1404							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	B	0.6	0.7	2.0	0.6	2.0	0.6	2.0	E	1.5	1.9	1.9	1.5	1.9	1.9	1.9
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Q1104								C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	0.0	0.0	0.0	0.0	4.7	0.0	4.7	E	0.0	0.0	1.5	0.0	1.5	0.0	1.5	B	0.9	1.3	1.3	0.9	1.3	1.3	1.3
Q1002								C	0.8	0.9	3.0	0.8	3.0	0.8	3.0	Q1405							
E	0.0	0.0	0.2	0.0	0.0	0.0	0.0	B	0.6	0.7	2.1	0.6	2.1	0.6	2.1	E	1.5	1.9	0.0	1.5	0.0	1.9	0.0
C	4.6	4.6	4.8	4.6	3.9	4.6	3.9	Q1105								C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	0.0	0.0	0.1	0.0	0.4	0.0	0.4	E	0.2	0.3	2.3	0.2	2.4	0.2	2.3	B	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Q1003								C	0.8	0.9	4.8	0.8	4.7	0.8	4.8	Q1406							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	B	0.8	0.9	2.9	0.8	3.0	0.8	3.0	E	2.1	2.5	2.5	2.1	2.5	2.5	2.5
C	2.0	2.0	1.9	2.0	2.0	2.0	2.0	Q1106								C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	E	0.0	0.0	1.4	0.0	1.4	0.0	1.4	B	1.5	1.9	0.0	1.5	0.0	1.9	0.0
Q1004								C	0.8	0.9	3.6	0.8	3.6	0.8	3.6	Q1407							
E	1.8	1.8	1.8	1.8	1.8	1.8	1.8	B	0.2	0.3	2.0	0.2	2.1	0.2	2.1	E	2.1	2.5	2.5	2.1	2.5	2.5	2.5
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Q1107								C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	E	0.0	0.0	0.8	0.0	0.8	0.0	0.8	B	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Q1006								C	0.8	0.9	4.8	0.8	4.7	0.8	4.8	Q1409							
E	3.0	3.0	3.0	3.0	3.0	3.0	3.0	B	0.0	0.0	1.4	0.0	1.5	0.0	1.5	E	4.9	4.9	4.9	4.9	4.9	4.9	4.9
C	4.8	4.8	4.8	4.8	4.8	4.8	4.8	Q1302								C	0.7	0.7	4.8	0.7	4.8	0.7	4.8
B	3.7	3.7	3.7	3.7	3.7	3.7	3.7	E	0.0	0.0	2.3	0.0	2.3	0.0	2.3	B	4.7	4.7	4.2	4.7	4.2	4.7	4.2
Q1009								C	0.7	0.8	4.8	0.7	4.8	0.7	4.8	Q1412							
E	1.6	1.6	2.4	1.6	2.4	1.6	2.4	B	3.2	3.1	3.0	3.2	3.0	3.1	3.0	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	4.8	4.9	4.8	4.8	4.8	4.9	4.8	Q1307								C	4.9	4.9	4.9	4.9	0.0	4.9	0.0
B	2.2	2.2	2.2	2.2	2.2	2.2	2.2	E	0.0	0.8	0.0	0.0	0.0	0.0	0.0	B	0.0	0.0	0.0	0.0	3.4	0.0	3.4
Q1011								C	4.8	4.8	4.8	4.8	4.8	4.8	4.8	Q1413							
E	0.7	0.7	4.8	0.7	4.8	0.7	4.8	B	0.0	1.5	0.0	0.0	0.0	0.0	0.0	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0

7-4. POWER CIRCUIT

MODE / PIN NO.	STOP	REC	PLAY	F.FWD / REW	SERCH REV/FWD	PAUSE REC	PAUSE PLAY
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	3.6	3.7	0.0	3.6	0.0	3.7	0.0
Q1422							
E	4.9	4.9	4.9	4.9	4.9	4.9	4.9
C	4.9	4.9	4.9	4.9	4.9	4.9	4.9
B	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Q1465							
E	0.5	0.5	0.5	0.5	0.5	0.5	0.5
C	4.9	4.9	4.9	4.9	4.9	4.9	4.9
B	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Q1466							
E	1.1	1.1	1.1	1.1	1.1	1.1	1.1
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Q1602							
E	0.8	0.8	4.8	0.7	4.8	0.7	4.8
C	0.2	0.3	4.8	0.2	1.8	0.2	1.8
B	0.0	0.0	0.0	0.0	4.8	0.0	4.8
Q1603							
E	0.0	0.0	3.0	0.0	3.0	0.0	3.0
C	0.7	0.7	4.8	0.7	4.8	0.7	4.8
B	0.0	0.0	3.6	0.0	3.6	0.0	3.6
Q1604							
E	0.0	0.0	1.5	0.0	1.4	0.0	1.4
C	0.7	0.7	4.8	0.7	4.8	0.7	4.8
B	0.0	0.0	2.1	0.0	2.1	0.0	2.1
Q1605							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	0.3	0.3	0.5	0.3	0.3	0.3	0.4
B	0.0	0.0	0.0	0.0	0.2	0.0	0.1
Q1606							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Q1801							
E	4.9	4.2	4.9	4.9	4.9	4.9	4.9
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	4.9	3.8	4.9	4.9	4.9	4.9	4.9
Q1802							
E	4.9	2.8	4.9	4.9	4.9	4.9	4.9
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	4.8	3.1	4.8	4.8	4.8	4.8	4.8
Q1901							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	4.8	1.3	1.3	4.8	1.3	1.3	1.3
B	0.0	1.3	1.3	0.0	1.3	1.3	1.3
Q1903							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	4.6	4.8	4.7	4.6	0.1	4.7	0.0
B	0.0	0.0	0.1	0.0	4.9	0.0	4.9

MODE / PIN NO.	STOP	REC	PLAY	F.FWD / REW	SERCH REV/FWD	PAUSE REC	PAUSE PLAY
Q1904							
E	2.8	4.9	2.8	2.8	2.8	2.8	2.8
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	2.1	4.2	2.1	2.1	2.1	2.1	2.1
Q1905							
E	2.2	0.0	2.2	2.2	2.2	2.2	2.2
C	4.8	4.9	4.8	4.8	4.8	4.8	4.8
B	2.8	0.0	2.8	2.8	2.8	2.8	2.8
Q1906							
E	3.1	3.1	3.1	3.1	3.1	3.1	3.1
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	2.4	2.5	2.4	2.4	2.4	2.4	2.4
Q1907							
E	4.6	4.7	4.7	4.6	4.7	4.7	4.7
C	4.4	4.5	4.0	4.4	4.7	4.4	4.7
B	4.6	4.8	4.7	4.6	0.1	4.7	0.7
Q1908							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	4.3	4.3	4.3	4.3	4.3	4.3	4.3
B	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D1001							
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D1301							
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D1427							
1	0.0	3.5	0.0	00	0.0	3.5	0.0
2	0.0	3.5	0.0	0.0	0.0	3.5	0.0
3	0.0	0.6	0.0	0.0	0.0	0.6	0.0

MODE / PIN NO.	STOP	REC	PLAY	F.FWD / REW	SERCH REV/FWD	PAUSE REC	PAUSE PLAY
IC301							
1	1.6	1.6	1.6	1.6	1.6	1.6	1.6
2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
3	1.2	1.2	1.2	1.2	1.2	1.2	1.2
4	1.2	1.2	0.4	0.4	1.2	1.2	1.2
5	1.6	1.6	2.4	2.4	1.6	1.6	1.6
6	1.7	1.7	1.1	1.1	1.7	1.7	1.7
7	5.0	5.0	5.6	5.6	5.0	5.0	5.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	6.0	6.0	6.0	6.0	6.0	6.0	6.0
10	1.2	1.2	1.2	1.2	1.2	1.2	1.2
11	2.5	2.5	2.5	2.5	2.5	2.5	2.5
12	1.8	1.8	1.8	1.8	1.8	1.8	1.8
13	1.2	1.2	1.2	1.2	1.2	1.2	1.2
14	5.0	5.0	4.9	4.9	5.0	5.0	5.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Q3001							
1	5.3	5.3	5.4	5.4	5.3	5.3	5.3
2	5.9	5.9	6.0	6.0	5.9	5.9	5.9
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	5.1	5.1	5.1	5.1	5.1	5.1	5.1
Q3002							
E	5.3	5.3	5.4	5.4	5.3	5.3	5.3
C	5.9	5.9	6.0	5.9	5.9	5.9	5.9
B	5.0	5.0	5.1	5.1	5.0	5.0	5.0
Q3003							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	1.9	1.9	2.0	2.0	1.9	1.9	1.9
Q3004							
E	109	1.9	2.0	2.0	1.9	1.9	1.9
C	3.4	3.4	2.1	2.1	3.4	3.4	3.4
B	2.4	2.4	1.0	1.0	2.4	2.4	2.4
Q3005							
E	3.4	3.4	2.1	2.1	3.4	3.4	3.4
C	1.9	1.9	2.0	2.0	1.9	1.9	1.9
B	3.3	3.3	1.4	1.4	3.3	3.3	3.3
Q3005							
E	6.0	6.0	6.0	6.0	6.0	6.0	6.0
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	5.5	5.5	5.6	5.6	5.5	5.5	5.5
Q3007							
E	5.5	5.5	5.6	5.6	5.5	5.5	5.5
C	6.0	6.0	6.0	6.0	6.0	6.0	6.0
B	4.0	4.0	5.6	5.6	4.0	4.0	4.0
Q3008							
1	5.9	5.7	5.9	5.6	5.7	5.7	5.7
2	6.0	6.0	6.0	6.0	6.0	6.0	6.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

7-5. AUDIO CIRCUIT (For VM-EX220P)

MODE / PIN NO.	STOP	REC	PLAY	FFWD/REW	SERCH REV/FWD	PAUSE REC	PAUSE PLAY	MODE / PIN NO.	STOP	REC	PLAY	FFWD/REW	SERCH REV/FWD	PAUSE REC	PAUSE PLAY	MODE / PIN NO.	STOP	REC	PLAY	FFWD/REW	SERCH REV/FWD	PAUSE REC	PAUSE PLAY
4	0.0	1.9	1.9	*1	*1	1.8	1.8	IC261								E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Q3009								1	0.6	3.2	3.2	0.6	3.2	3.2	3.2	C	0.0	0.0	1.2	0.0	1.5	0.0	1.5
E	5.9	5.7	5.9	5.6	5.7	5.7	5.7	2	0.0	0.0	0.8	0.0	0.8	0.0	1.3	B	0.0	1.3	1.4	0.0	1.4	1.3	1.4
C	6.0	6.0	6.0	6.0	6.0	6.0	6.0	3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	Q2631							
B	6.0	5.9	5.9	5.7	5.9	5.9	5.9	4	2.5	2.5	1.6	2.5	1.8	2.5	1.6	E	5.0	5.0	4.9	5.0	4.9	5.0	4.9
Q3010								5	0.7	0.7	4.9	0.7	4.9	0.7	4.9	C	0.0	0.0	1.2	0.0	0.5	0.0	0.5
1	5.9	3.9	3.9	3.7	*2	3.9	3.9	6	2.1	2.1	2.2	2.1	2.2	2.1	2.2	B	0.0	1.3	1.4	0.0	1.4	1.3	1.4
2	5.9	4.1	4.1	*3	2.9	5.9	6.0	7	5.0	5.0	4.9	5.0	4.9	5.0	4.9	Q2670							
3	0.0	0.4	0.4	0.6	0.5	0.0	0.0	8	1.9	1.9	1.3	1.9	1.3	1.9	1.3	E	2.1	2.1	2.1	2.1	2.1	2.1	2.1
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C	2.4	2.4	2.3	2.4	2.3	2.4	2.3
5	0.0	0.4	0.4	0.4	0.4	0.4	0.4	10	0.0	1.3	1.4	0.0	1.4	1.3	1.4	B	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Q3011								11	0.0	0.0	0.0	0.0	0.0	0.0	3.5	Q2702							
E	5.9	5.9	5.7	5.2	5.6	5.9	6.0	12	0.0	0.0	2.2	0.0	2.2	0.0	2.2	E	0.7	0.7	0.7	0.7	0.7	0.7	0.7
C	6.0	6.0	6.0	6.0	6.0	6.0	6.0	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C	1.9	1.9	1.9	1.9	1.9	1.9	1.9
B	6.0	5.9	6.0	5.6	5.9	5.9	6.0	14	2.1	2.1	2.1	2.1	2.1	2.1	2.1	B	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Q3012								15	2.1	2.1	2.1	2.1	2.1	2.1	2.1								
1	5.9	5.9	5.7	5.2	5.6	5.9	6.0	16	2.1	2.1	2.1	2.1	2.1	2.1	2.1								
2	6.0	6.0	6.0	6.0	6.0	6.0	6.0	17	4.9	4.9	4.9	4.9	4.9	4.9	4.9								
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
4	0.5	1.8	1.8	*4	*5	0.5	0.5	19	2.4	2.4	2.3	2.4	2.3	2.4	2.3								
								20	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
								21	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
								22	5.0	5.0	4.9	5.0	4.9	5.0	4.9								
								23	2.1	2.1	2.1	2.1	2.1	2.1	2.1								
								24	2.1	2.1	2.1	2.1	2.1	2.1	2.1								
								25	2.1	2.1	2.1	2.1	2.1	2.1	2.1								
								26	2.1	2.1	2.1	2.1	2.1	2.1	2.1								
								27	2.7	2.7	2.7	2.7	2.7	2.7	2.7								
								28	2.0	2.0	2.0	2.0	2.0	2.0	2.0								
								29	2.8	2.8	2.8	2.8	2.8	2.8	2.8								
								30	5.0	5.0	4.9	5.0	4.9	5.0	4.9								
								31	2.1	2.1	2.1	2.1	2.1	2.1	2.1								
								32	2.1	2.1	2.1	2.1	2.1	2.1	2.1								
								33	2.1	2.3	2.1	2.1	2.1	2.3	2.1								
								34	2.1	0.0	0.0	2.1	2.1	0.0	2.1								
								35	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
								36	2.1	2.1	2.1	2.1	2.1	2.1	2.1								
								37	4.0	4.0	4.0	4.0	4.0	4.0	4.0								
								38	2.1	2.1	2.1	2.1	2.1	2.1	2.1								
								39	2.1	2.1	2.0	2.1	2.0	2.1	2.0								
								40	1.7	1.7	1.6	1.7	1.6	1.7	1.6								
								41	4.2	4.2	4.2	4.2	4.2	4.2	4.2								
								42	4.9	4.9	4.9	4.9	4.9	4.9	4.9								
								43	2.1	2.1	2.1	2.1	2.1	2.1	2.1								
								44	2.1	2.1	2.1	2.1	2.1	2.1	2.1								
								45	3.2	3.2	3.2	3.2	3.2	3.2	3.2								
								46	2.3	2.3	2.9	2.3	2.9	2.3	2.9								
								47	1.9	0.0	0.0	1.9	0.0	0.0	0.0								
								48	0.0	0.0	1.2	0.0	0.5	0.0	0.5								
								Q2630															

*1 1.8/1.9 *2 3.9/3.8 *3 1.1/1.5 *4 4.6/4.2 *5 2.9/2.8

7-6. AUDIO CIRCUIT (For VM-EX280P/370P)

MODE / PIN NO.	STOP	REC	PLAY	FFWD / REW	SERCH REV/FWD	PAUSE REC	PAUSE PLAY
IC201							
1	1.7	1.6	1.7	1.7	1.7	1.6	1.7
2	1.6	1.9	1.6	1.6	1.6	1.9	1.6
3	4.8	4.8	0.0	4.8	0.0	4.8	0.0
4	2.0	2.0	0.1	2.0	0.1	2.0	0.1
5	2.0	2.0	2.0	2.0	2.0	2.0	2.0
6	2.0	2.0	2.0	2.0	2.0	2.0	2.0
7	2.4	2.5	2.5	2.4	2.4	2.5	2.4
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
10	2.0	2.0	2.0	2.0	2.0	2.0	2.0
11	2.0	2.0	2.0	2.0	2.0	2.0	2.0
12	2.0	2.0	2.0	2.0	2.0	2.0	2.0
13	2.0	2.0	2.0	2.0	2.0	2.0	2.0
14	2.0	2.0	2.0	2.0	2.0	2.0	2.0
15	0.0	0.0	2.0	0.0	2.0	0.0	2.0
16	4.8	4.7	4.8	4.8	4.8	4.7	4.8
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	3.0	3.0	0.0	3.0	0.0	3.0	0.0
20	0.0	0.0	1.7	0.0	1.8	0.0	1.8
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.8	0.0	1.0	0.0	1.0
24	2.2	2.2	2.0	2.2	2.0	2.2	2.8
25	3.4	3.4	3.4	3.4	3.4	3.4	3.4
26	3.4	3.4	3.4	3.4	3.4	3.4	3.4
27	2.1	0.6	2.0	2.1	2.0	0.6	2.0
28	4.0	4.0	4.0	4.0	4.0	4.0	4.0
29	2.1	0.6	2.0	2.1	2.0	0.6	2.0
30	2.8	2.8	2.8	2.8	2.8	2.8	2.8
31	0.0	1.4	1.4	0.0	1.4	1.4	1.4
32	1.4	1.4	1.4	1.4	1.4	1.4	1.4
33	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34	0.0	0.0	2.0	0.0	2.0	0.0	2.0
35	2.0	2.0	2.0	2.0	2.0	2.0	2.0
36	2.0	1.9	2.0	2.0	2.0	1.9	2.0
37	2.0	1.9	2.0	2.0	2.0	1.9	2.0
38	2.0	1.9	2.0	2.0	2.0	1.9	2.0
39	2.0	1.9	2.0	2.0	2.0	1.9	2.0
40	1.9	1.9	1.9	1.9	1.9	1.9	1.9
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	2.0	2.4	2.0	2.0	2.0	2.4	2.0
43	2.0	1.9	2.0	2.0	2.0	1.9	2.0
44	2.3	2.0	2.3	2.3	2.3	2.0	2.3
45	2.4	2.3	2.4	2.4	2.4	2.3	2.4
46	2.2	2.1	2.0	2.2	2.0	2.1	2.0
47	2.4	2.3	2.4	2.4	2.4	2.3	2.4
48	4.8	0.0	0.0	4.8	4.8	0.0	4.8
49	2.4	2.3	2.4	2.4	2.4	2.3	2.4
50	2.3	2.3	2.3	2.3	2.3	2.3	2.3
51	2.3	2.3	2.3	2.3	2.3	2.3	2.3
52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53	4.0	3.9	4.0	4.0	4.0	3.9	4.0
54	5.0	4.9	4.9	5.0	4.9	4.9	4.9
55	5.0	4.9	4.9	5.0	4.9	4.9	4.9
56	3.7	2.2	0.9	3.7	3.7	2.2	3.7
57	3.8	0.0	0.0	3.8	3.8	0.0	3.8
58	0.0	4.9	3.9	0.0	3.9	4.9	3.9
59	0.0	0.0	3.5	0.0	3.5	0.0	3.5
60	2.0	2.0	2.0	2.0	2.0	2.0	2.0
61	1.2	1.2	1.2	1.2	1.2	1.2	1.2
62	2.0	2.0	0.5	2.0	0.5	2.0	0.5
63	2.0	2.0	0.4	2.0	0.4	2.0	0.4
64	2.0	2.0	0.5	2.0	0.5	2.0	0.5
IC291							
1	1.6	1.6	1.6	1.6	1.6	1.6	1.6
2	1.6	1.6	1.6	1.6	1.6	1.6	1.6
3	1.6	1.6	1.6	1.6	1.6	1.6	1.6
4	1.6	1.6	1.6	1.6	1.6	1.6	1.6
5	1.6	1.6	1.6	1.6	1.6	1.6	1.6
6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
7	1.6	1.6	1.6	1.6	1.6	1.6	1.6
8	1.6	1.6	1.6	1.6	1.6	1.6	1.6
9	1.6	1.6	1.6	1.6	1.6	1.6	1.6
10	1.6	1.6	1.6	1.6	1.6	1.6	1.6
11	1.6	1.6	1.6	1.6	1.6	1.6	1.6
12	1.6	1.6	1.6	1.6	1.6	1.6	1.6
13	4.0	3.9	4.0	4.0	4.0	3.9	4.0
14	4.0	3.9	4.0	4.0	4.0	3.9	4.0
15	4.0	3.9	4.0	4.0	4.0	3.9	4.0
16	4.0	3.9	4.0	4.0	4.0	3.9	4.0
17	1.6	1.6	1.6	1.6	1.6	1.6	1.6
18	1.6	1.6	1.6	1.6	1.6	1.6	1.6
19	3.1	3.1	3.1	3.1	3.1	3.1	3.1
20	1.6	1.6	1.6	1.6	1.6	1.6	1.6
21	1.6	1.6	1.6	1.6	1.6	1.6	1.6
22	1.6	1.6	1.6	1.6	1.6	1.6	1.6
23	1.6	1.6	1.6	1.6	1.6	1.6	1.6
24	1.6	1.6	1.6	1.6	1.6	1.6	1.6
25	1.6	1.6	1.6	1.6	1.6	1.6	1.6
26	1.6	1.6	1.6	1.6	1.6	1.6	1.6
27	1.6	1.6	1.6	1.6	1.6	1.6	1.6
28	1.6	1.6	1.6	1.6	1.6	1.6	1.6
29	2.0	2.0	2.0	2.0	2.0	2.0	2.0
30	1.6	1.6	1.6	1.6	1.6	1.6	1.6
31	2.3	2.3	2.3	2.3	2.3	2.3	2.3
32	2.3	2.3	2.3	2.3	2.3	2.3	2.3
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	1.6	1.6	1.6	1.6	1.6	1.6	1.6
35	2.0	2.0	2.0	2.0	2.0	2.0	2.0
36	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Q2203							
E	1.4	1.4	1.4	1.4	1.4	1.4	1.4
C	0.1	0.1	0.1	0.1	0.1	0.1	0.1
B	5.0	4.9	4.9	5.0	4.9	4.9	4.9
Q2204							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	5.0	4.9	4.9	5.0	4.9	4.9	4.9
B	0.6	0.6	0.0	0.6	0.0	0.6	0.0
Q2205							
E	5.0	4.9	4.9	5.0	4.9	4.9	4.9
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	5.0	4.9	4.9	5.0	4.9	4.9	4.9
Q2206							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	5.0	4.9	4.9	5.0	4.9	4.9	4.9
B	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Q2207							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Q2208							
E	1.4	1.4	1.4	1.4	1.4	1.4	1.4
C	2.0	2.0	2.0	2.0	2.0	2.0	2.0
B	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Q2209							
E	0.0	0.0	3.5	0.0	3.5	0.0	3.5
C	0.6	0.6	0.0	0.6	0.0	0.6	0.0
B	0.6	0.6	0.0	0.6	0.0	0.6	0.0
Q2210							
E	4.8	4.8	0.0	4.8	0.0	4.8	0.0
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Q2211							
E	5.0	4.9	4.9	5.0	4.9	4.9	4.9
C	5.0	0.0	0.0	5.0	4.9	0.0	4.9
B	0.0	4.9	4.9	0.0	0.0	4.9	0.0
Q2212							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	0.0	4.9	4.9	0.0	0.0	4.9	0.0
B	3.2	0.0	0.0	3.2	3.2	0.0	3.2
Q2213							
E	3.2	0.0	0.0	3.2	3.2	0.0	3.2
C	3.8	0.0	0.0	3.8	3.8	0.0	3.8
B	3.8	0.0	0.0	3.8	3.8	0.0	3.8
Q2401							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	5.0	0.0	0.0	5.0	4.9	0.0	4.9

7-7. VIEWFINDER CIRCUIT (For VM-EX220P/280P)

MODE / PIN NO.	STOP	REC	PLAY	FFWD/REW	SEARCH REV/FWD	PAUSE REC	PAUSE PLAY
Q2501							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	5.0	0.0	0.0	5.0	4.9	0.0	4.9
Q2601							
E	2.0	2.0	1.1	2.0	1.1	2.0	1.1
C	2.3	2.3	2.3	2.3	2.3	2.3	2.3
B	1.4	1.4	0.5	1.4	0.5	1.4	0.5
Q2962							
E	1.5	1.5	1.5	1.5	1.5	1.5	1.5
C	4.0	3.9	4.0	4.0	4.0	3.9	4.0
B	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Q2963							
E	2.1	2.1	2.1	2.1	2.1	2.1	2.1
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Q2964							
E	1.5	1.5	1.5	1.5	1.5	1.5	1.5
C	4.0	3.9	4.0	4.0	4.0	3.9	4.0
B	2.1	2.1	2.1	2.1	2.1	2.1	2.1

MODE / PIN NO.	VIEWFINDER		
	CAMERA ON	OPEN	MONOSCOPE TAPE PLAYBACK
IC971			
1	2.3	2.4	2.3
2	5.0	5.0	5.0
3	2.2	2.1	2.2
4	0.0	0.0	0.0
5	2.3	2.4	2.3
6	1.4	1.4	1.4
7	2.2	2.1	2.2
8	4.7	4.7	4.7
9	4.3	4.3	4.3
10	0.0	0.0	0.0
11	2.0	1.8	2.3
12	4.7	4.7	4.7
13	3.1	3.4	2.4
14	2.2	1.9	2.2
15	1.9	1.9	1.9
16	2.3	2.3	2.3
FBT			
1	24	22	27
2	24	22	27
3	4.9	4.9	4.9
4	4.8	4.8	4.8
5	4.8	4.8	4.8
6	0.0	0.0	0.0
7	–	–	–
8	− 37	− 38	− 35
Q9701			
B	0.5	0.5	0.5
C	4.8	4.8	4.8
E	0.0	0.0	0.0
Q9702			
B	3.1	3.4	2.4
C	− 30	− 33	− 25
E	3.7	3.9	2.9

7-8. VIEWFINDER CIRCUIT (For VM-EX370P)

MODE	VIEWFINGER	
PIN NO.	CAMERA ON	MONOSCOPE TAPE PLAYBACK
IC971		
1	2.0	2.0
2	4.2	4.1
3	2.1	2.1
4	2.1	3.3
5	0.0	0.0
6	2.5	2.5
7	3.5	3.5
8	0.9	2.7
9	1.9	1.9
10	1.9	1.9
11	1.6	0.2
12	2.6	2.6
13	2.8	2.8
14	4.1	4.0
15	2.4	2.3
16	2.9	2.9
17	0.0	0.0
18	0.0	0.0
19	2.4	2.4
20	6.0	6.0
21	2.4	2.4
22	6.0	6.0
23	2.4	2.4
24	6.0	6.0
25	12.0	12.0
26	2.3	2.3
27	2.3	2.3
28	2.3	2.3
29	2.4	2.4
30	2.1	2.2
31	2.3	2.3
32	2.3	2.2
33	1.3	1.3
34	2.2	2.3
35	2.4	2.4
36	0.4	0.3
37	0.6	0.5
38	2.4	2.6
39	0.0	0.0
40	0.0	0.0
41	0.0	0.0
42	2.1	2.1
43	4.7	4.7
44	1.3	1.3
45	1.8	1.8
46	2.8	2.9
47	1.8	0.6
48	2.3	2.3
Q9751		
B	0.1	0.1
C	11.7	11.7
E	0.0	0.0
Q9752		
B	6.6	6.6
C	13.5	13.5
E	6.0	6.0
Q9753		
B	6.0	6.0
C	0.0	0.0
E	6.6	6.6
IC972		
1	4.7	4.7
2	0.0	0.0
3	4.7	4.7
4	0.0	0.0
5	4.7	4.7
6	0.0	0.0
7	0.0	0.0
8	0.0	0.0
9	0.0	0.0
10	4.7	4.7
11	4.7	4.7
12	4.7	4.7
13	12.0	12.0
14	0.1	0.1
15	0.1	0.1
16	0.8	0.8
17	12.0	12.0
18	0.1	0.1
19	6.0	6.0
20	6.0	6.0
21	0.1	0.1
22	6.3	6.2
23	5.9	5.9
24	0.0	0.0
25	0.0	0.0
26	0.0	0.0
27	0.6	0.5
28	2.4	2.4
29	2.4	2.4
30	0.0	0.0
31	1.5	1.5
32	1.5	1.5
33	1.5	1.5
34	2.4	2.4
35	4.6	4.6
36	0.4	0.3
37	3.1	3.1
38	4.7	4.7
39	2.4	2.4
40	2.4	2.4
41	0.0	0.0
42	0.0	0.0
43	4.7	4.7
44	4.7	4.7
45	0.0	0.0
46	0.0	0.0
47	0.0	0.0
48	4.7	4.7
D/D CON		
1	4.9	4.9
2	6.2	6.3
3	13.5	13.5
4	12.1	12.0
5	7.6	7.6
6	0.0	0.0
CN971		
1	4.9	4.9
2	0.0	0.0
3	2.7	2.9
4		
5	6.2	6.3
6	0.0	0.0
CN972		
1	0.4	0.3
2	7.4	7.4
3	0.0	0.0
CN973		
1	6.0	6.0
2	0.1	0.1
3	12.9	12.9
4	0.1	0.1
5	0.0	0.0
6	6.0	6.0
7	6.0	6.0
8	12.0	12.0
9	0.1	0.1
10	6.3	6.2
11	5.9	5.9
12	0.2	0.1
13	0.0	0.0
14	6.0	6.0
15	6.0	6.0
16	6.0	6.0

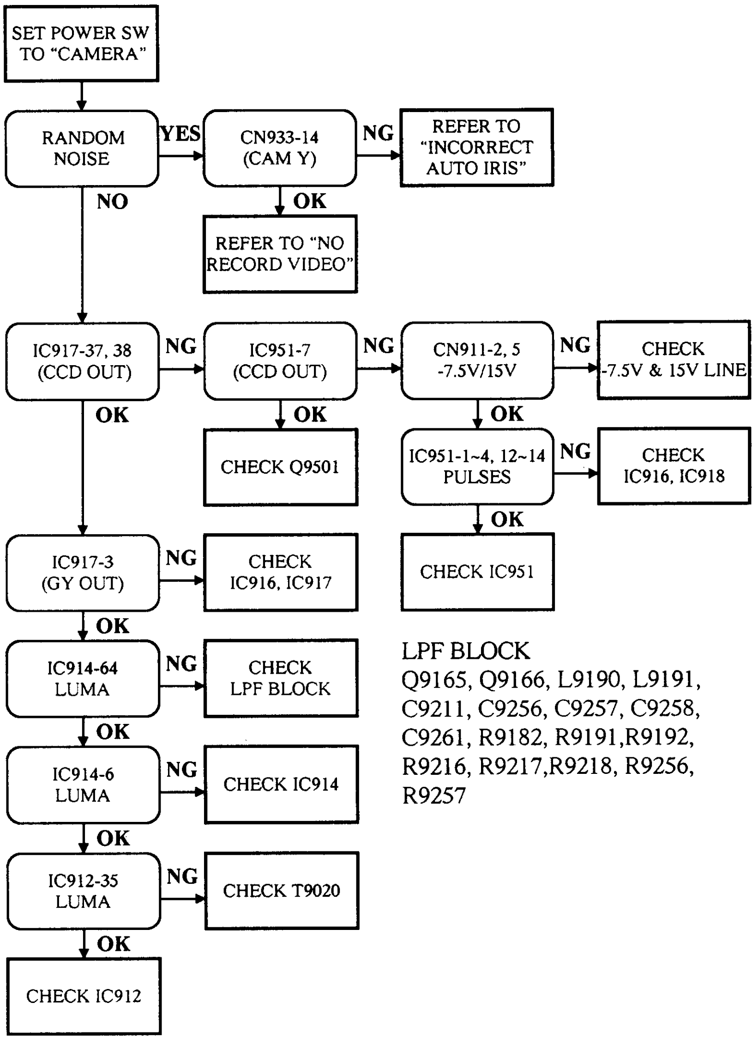
8. TROUBLESHOOTING GUIDE

SUBINDEX

Auto-focus Inoperative ········ 8-2
Capstan Does Not Rotate ········ 8-3
Drum Does Not Rotate ········ 8-3
Eject Inoperative ········ 8-4
Incorrect Auto Exposure ········ 8-2
Incorrect Auto Iris ········ 8-2
Incorrect Auto White Balance ········ 8-2
Loading Inoperative ········ 8-3
No AF/MF Change And Power Zoom Inoperative ········ 8-2
No Color ········ 8-1
No EE-Audio ········ 8-7
No EE-Chroma ········ 8-6
No EE-Video Monitor ········ 8-5
No EVF Raster ········ 8-8
No Picture ········ 8-1
No Picture In EVF ········ 8-5
No Play Audio ········ 8-7
No Play Chroma ········ 8-5
No Play Video ········ 8-6
No Record Audio ········ 8-7
No Record Chroma ········ 8-5
No Record Video ········ 8-6
Noisy Picture Only When Prerecorded Tape Is Played Back ········ 8-6
No VF Video ········ 8-8
On-Screen Display Inoperative (Servo/System Control) 8-4
On-Screen Display Inoperative (Video) ········ 8-5
Play Mode Inoperative ········ 8-4
Power Loss/Power Switch Inoperative ········ 8-4
Power Zoom Inoperative ········ 8-2
Record Mode Inoperative ········ 8-3

8-1. CAMERA CIRCUIT

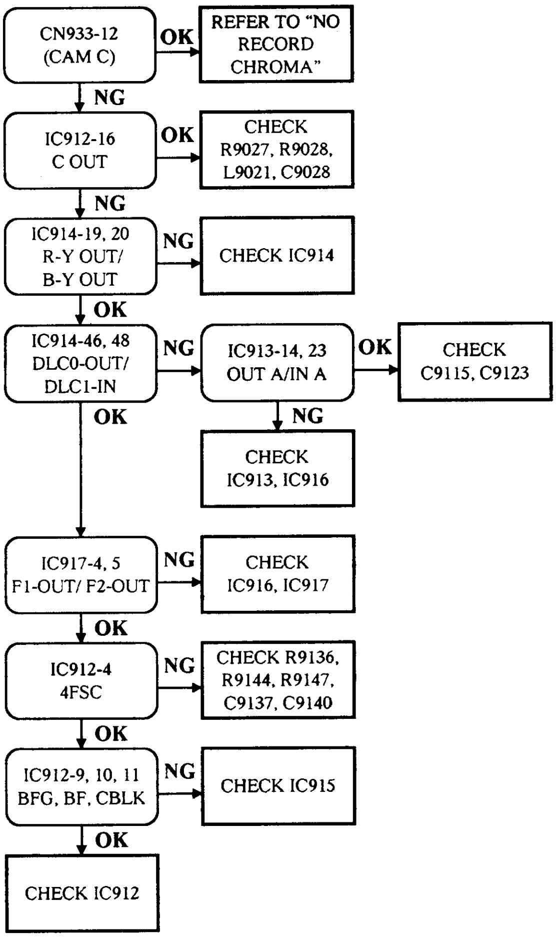
NO PICTURE



SET POWER SW TO "CAMERA"
RANDOM NOISE
YES
CN933-14 (CAM Y)
NG
REFER TO "INCORRECT AUTO IRIS"
OK
REFER TO "NO RECORD VIDEO"
NO
IC917-37, 38 (CCD OUT)
NG
IC951-7 (CCD OUT)
NG
CN911-2, 5 -7.5V/15V
NG
CHECK -7.5V & 15V LINE
OK
CHECK Q9501
OK
IC951-1~4, 12~14 PULSES
NG
CHECK IC916, IC918
OK
CHECK IC951
OK
IC917-3 (GY OUT)
NG
CHECK IC916, IC917
OK
IC914-64 LUMA
NG
CHECK LPF BLOCK
OK
IC914-6 LUMA
NG
CHECK IC914
OK
IC912-35 LUMA
NG
CHECK T9020
OK
CHECK IC912

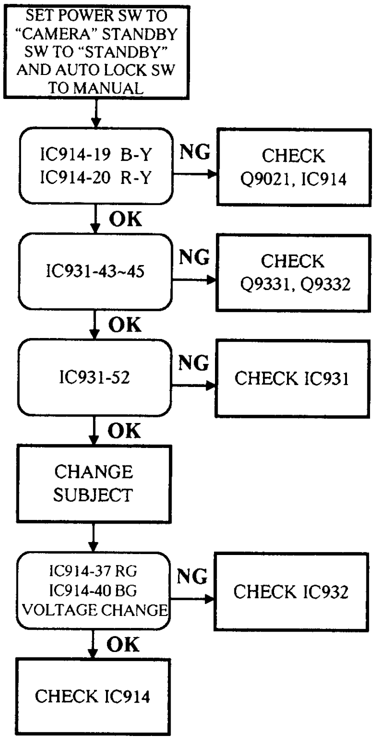
LPF BLOCK
Q9165, Q9166, L9190, L9191, C9211, C9256, C9257, C9258, C9261, R9182, R9191,R9192, R9216, R9217,R9218, R9256, R9257

NO COLOR

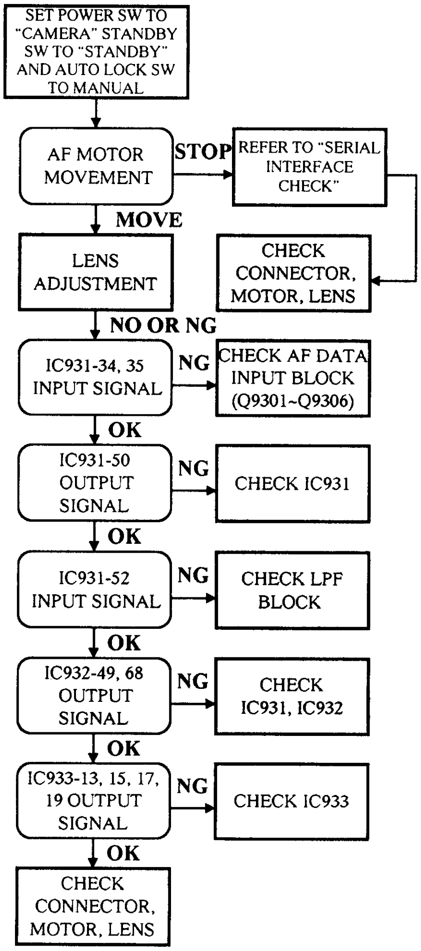


CN933-12 (CAM C)
OK
REFER TO "NO RECORD CHROMA"
NG
IC912-16 C OUT
OK
CHECK R9027, R9028, L9021, C9028
NG
IC914-19, 20 R-Y OUT/ B-Y OUT
NG
CHECK IC914
OK
IC914-46, 48 DLC0-OUT/ DLC1-IN
NG
IC913-14, 23 OUT A/IN A
OK
CHECK C9115, C9123
NG
CHECK IC913, IC916
OK
IC917-4, 5 F1-OUT/ F2-OUT
NG
CHECK IC916, IC917
OK
IC912-4 4FSC
NG
CHECK R9136, R9144, R9147, C9137, C9140
OK
IC912-9, 10, 11 BFG, BF, CBLK
NG
CHECK IC915
OK
CHECK IC912

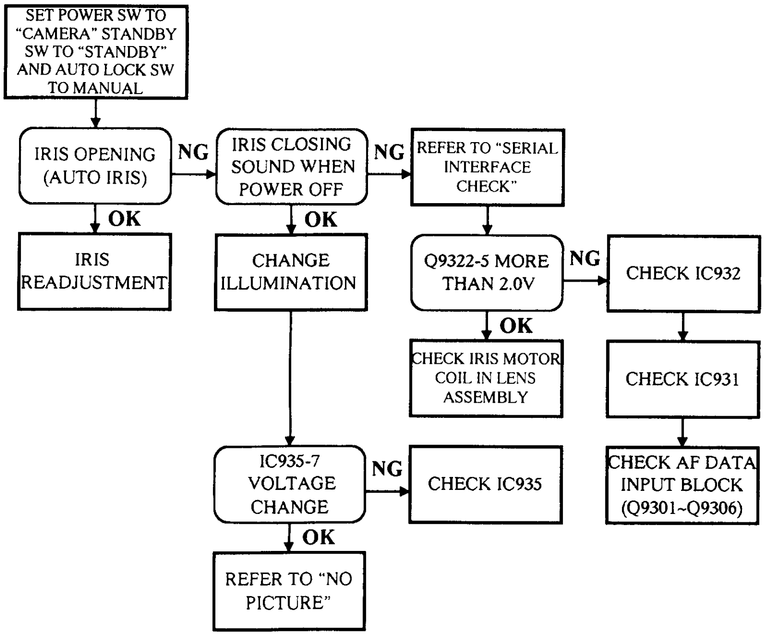
INCORRECT AUTO WHITE BALANCE


SET POWER SW TO "CAMERA" STANDBY SW TO "STANDBY" AND AUTO LOCK SW TO MANUAL
IC914-19 B-Y IC914-20 R-Y
NG
CHECK Q9021, IC914
OK
IC931-43~45
NG
CHECK Q9331, Q9332
OK
IC931-52
NG
CHECK IC931
OK
CHANGE SUBJECT
IC914-37 RG IC914-40 BG VOLTAGE CHANGE
NG
CHECK IC932
OK
CHECK IC914

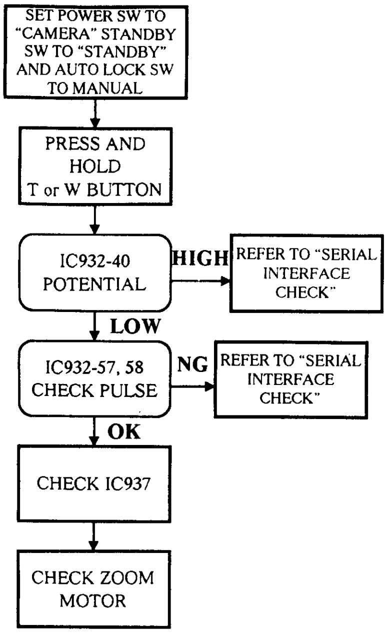
AUTO-FOCUS INOPERATIVE


SET POWER SW TO "CAMERA" STANDBY SW TO "STANDBY" AND AUTO LOCK SW TO MANUAL
AF MOTOR MOVEMENT
STOP
REFER TO "SERIAL INTERFACE CHECK"
MOVE
LENS ADJUSTMENT
CHECK CONNECTOR, MOTOR, LENS
NO OR NG
IC931-34, 35 INPUT SIGNAL
NG
CHECK AF DATA INPUT BLOCK (Q9301~Q9306)
OK
IC931-50 OUTPUT SIGNAL
NG
CHECK IC931
OK
IC931-52 INPUT SIGNAL
NG
CHECK LPF BLOCK
OK
IC932-49, 68 OUTPUT SIGNAL
NG
CHECK IC931, IC932
OK
IC933-13, 15, 17, 19 OUTPUT SIGNAL
NG
CHECK IC933
OK
CHECK CONNECTOR, MOTOR, LENS

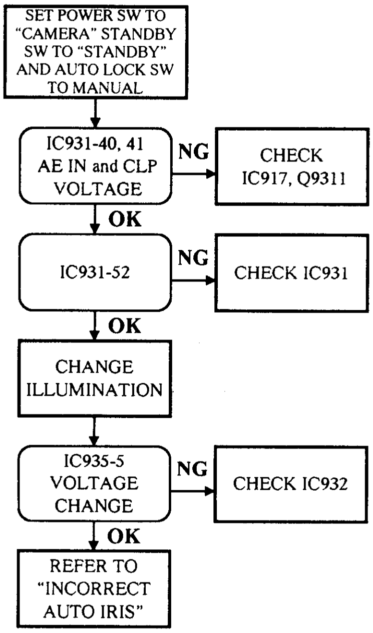
INCORRECT AUTO IRIS


SET POWER SW TO "CAMERA" STANDBY SW TO "STANDBY" AND AUTO LOCK SW TO MANUAL
IRIS OPENING (AUTO IRIS)
NG
IRIS CLOSING SOUND WHEN POWER OFF
NG
REFER TO "SERIAL INTERFACE CHECK"
OK
IRIS READJUSTMENT
OK
CHANGE ILLUMINATION
Q9322-5 MORE THAN 2.0V
NG
CHECK IC932
OK
CHECK IRIS MOTOR COIL IN LENS ASSEMBLY
CHECK IC931
CHECK AF DATA INPUT BLOCK (Q9301~Q9306)
IC935-7 VOLTAGE CHANGE
NG
CHECK IC935
OK
REFER TO "NO PICTURE"

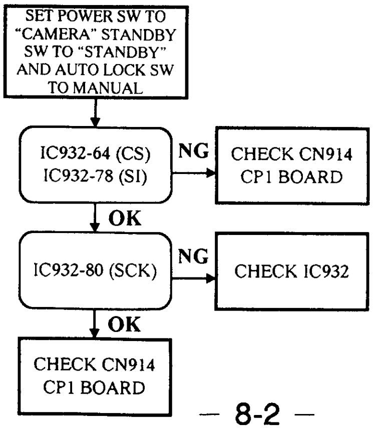
POWER ZOOM INOPERATIVE


SET POWER SW TO "CAMERA" STANDBY SW TO "STANDBY" AND AUTO LOCK SW TO MANUAL
PRESS AND HOLD T or W BUTTON
IC932-40 POTENTIAL
HIGH
REFER TO "SERIAL INTERFACE CHECK"
LOW
IC932-57, 58 CHECK PULSE
NG
REFER TO "SERIAL INTERFACE CHECK"
OK
CHECK IC937
CHECK ZOOM MOTOR

INCORRECT AUTO EXPOSURE

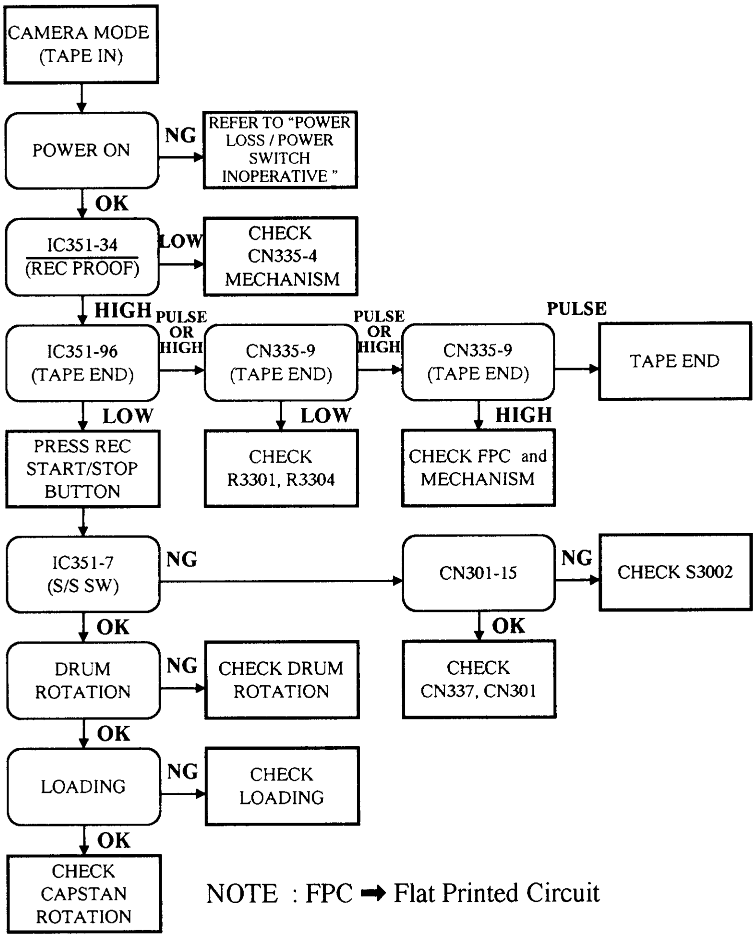

SET POWER SW TO "CAMERA" STANDBY SW TO "STANDBY" AND AUTO LOCK SW TO MANUAL
IC931-40, 41 AE IN and CLP VOLTAGE
NG
CHECK IC917, Q9311
OK
IC931-52
NG
CHECK IC931
OK
CHANGE ILLUMINATION
IC935-5 VOLTAGE CHANGE
NG
CHECK IC932
OK
REFER TO "INCORRECT AUTO IRIS"

NO AF / MF CHANGE AND POWER ZOOM INOPERATIVE (SERIAL INTERFACE CHECK)


SET POWER SW TO "CAMERA" STANDBY SW TO "STANDBY" AND AUTO LOCK SW TO MANUAL
IC932-64 (CS) IC932-78 (SI)
NG
CHECK CN914 CP1 BOARD
OK
IC932-80 (SCK)
NG
CHECK IC932
OK
CHECK CN914 CP1 BOARD

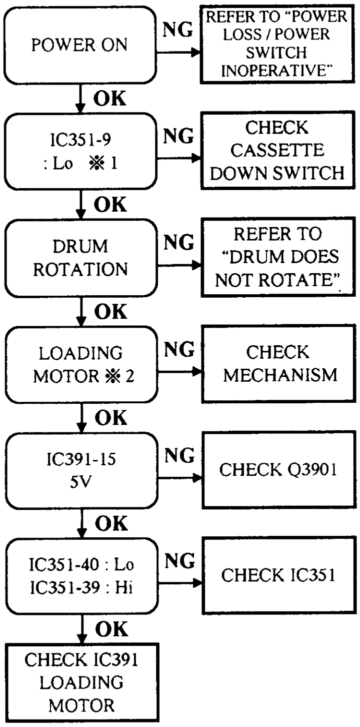
8-2. SERVO/SYSTEM CONTROL CIRCUIT

RECORD MODE INOPERATIVE


CAMERA MODE (TAPE IN)
POWER ON
NG
REFER TO "POWER LOSS / POWER SWITCH INOPERATIVE"
OK
IC351-34 (REC PROOF)
LOW
CHECK CN335-4 MECHANISM
HIGH
PULSE OR HIGH
IC351-96 (TAPE END)
CN335-9 (TAPE END)
PULSE OR HIGH
CN335-9 (TAPE END)
PULSE
TAPE END
LOW
PRESS REC START/STOP BUTTON
LOW
CHECK R3301, R3304
HIGH
CHECK FPC and MECHANISM
IC351-7 (S/S SW)
NG
CN301-15
NG
CHECK S3002
OK
OK
DRUM ROTATION
NG
CHECK DRUM ROTATION
CHECK CN337, CN301
OK
LOADING
NG
CHECK LOADING
OK
CHECK CAPSTAN ROTATION

NOTE : FPC ➡ Flat Printed Circuit

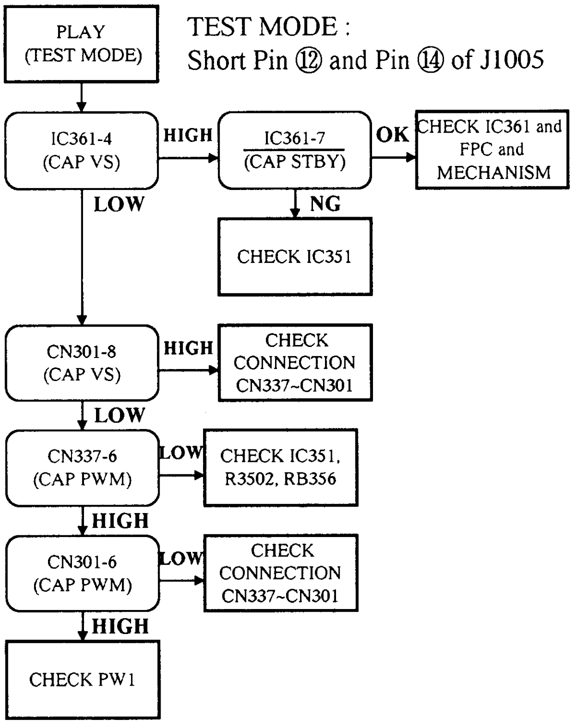
LOADING INOPERATIVE


POWER ON
NG
REFER TO "POWER LOSS / POWER SWITCH INOPERATIVE"
OK
IC351-9 : Lo ※1
NG
CHECK CASSETTE DOWN SWITCH
OK
DRUM ROTATION
NG
REFER TO "DRUM DOES NOT ROTATE"
OK
LOADING MOTOR ※2
NG
CHECK MECHANISM
OK
IC391-15 5V
NG
CHECK Q3901
OK
IC351-40 : Lo
IC351-39 : Hi
NG
CHECK IC351
OK
CHECK IC391 LOADING MOTOR

※1 IC351-9 Hi : Cassette holder up
Lo : Cassette holder down

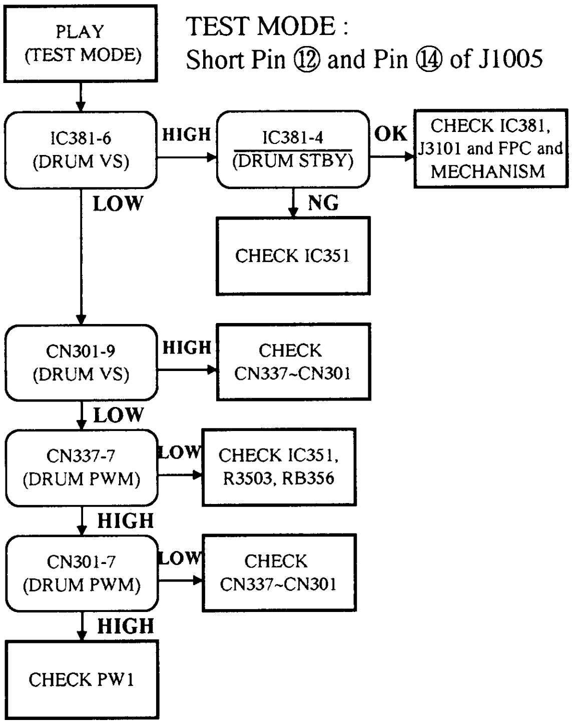
※2 Loading Motor starts loading when cassette holder is down.

CAPSTAN DOES NOT ROTATE


PLAY (TEST MODE)
IC361-4 (CAP VS)
HIGH
IC361-7 (CAP STBY)
OK
CHECK IC361 and FPC and MECHANISM
LOW
NG
CHECK IC351
CN301-8 (CAP VS)
HIGH
CHECK CONNECTION CN337~CN301
LOW
CN337-6 (CAP PWM)
LOW
CHECK IC351, R3502, RB356
HIGH
CN301-6 (CAP PWM)
LOW
CHECK CONNECTION CN337~CN301
HIGH
CHECK PW1

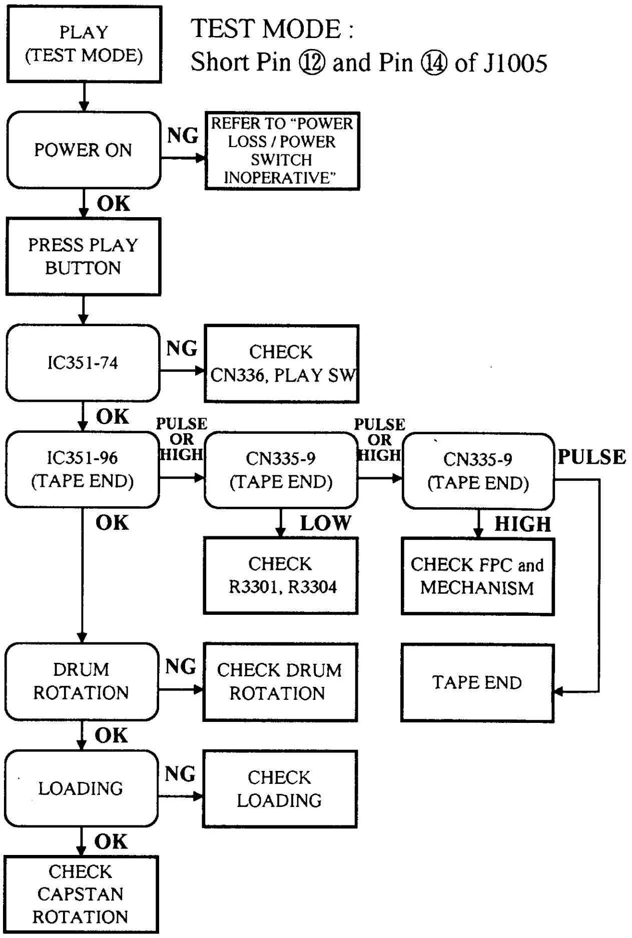
TEST MODE :
Short Pin ⑫ and Pin ⑭ of J1005

DRUM DOES NOT ROTATE

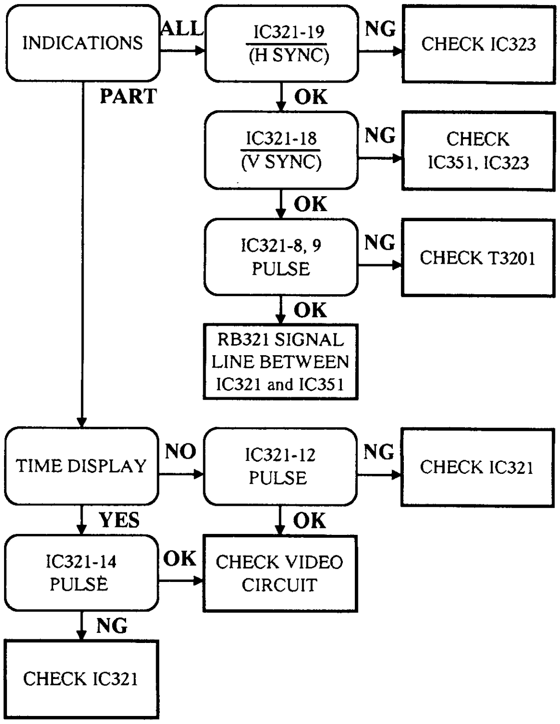

PLAY (TEST MODE)
IC381-6 (DRUM VS)
HIGH
IC381-4 (DRUM STBY)
OK
CHECK IC381, J3101 and FPC and MECHANISM
LOW
NG
CHECK IC351
CN301-9 (DRUM VS)
HIGH
CHECK CN337~CN301
LOW
CN337-7 (DRUM PWM)
LOW
CHECK IC351, R3503, RB356
HIGH
CN301-7 (DRUM PWM)
LOW
CHECK CN337~CN301
HIGH
CHECK PW1

TEST MODE :
Short Pin ⑫ and Pin ⑭ of J1005

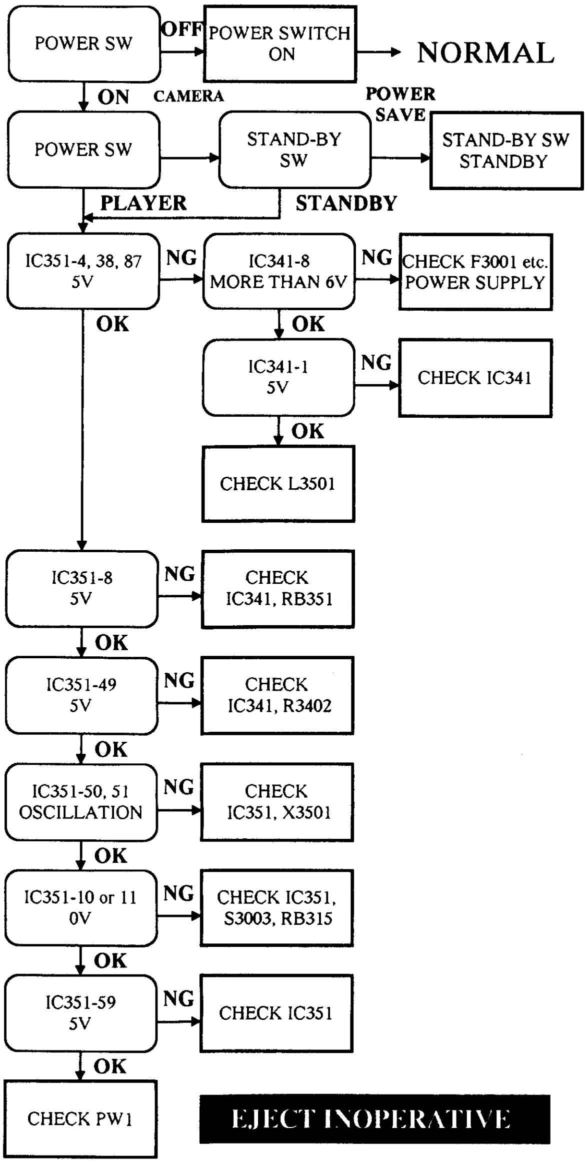
PLAY MODE INOPERATIVE


TEST MODE :
Short Pin ⑫ and Pin ⑭ of J1005
PLAY (TEST MODE)
POWER ON
NG
REFER TO "POWER LOSS / POWER SWITCH INOPERATIVE"
OK
PRESS PLAY BUTTON
IC351-74
NG
CHECK CN336, PLAY SW
OK
IC351-96 (TAPE END)
PULSE OR HIGH
CN335-9 (TAPE END)
PULSE OR HIGH
CN335-9 (TAPE END)
PULSE
LOW
CHECK R3301, R3304
HIGH
CHECK FPC and MECHANISM
OK
DRUM ROTATION
NG
CHECK DRUM ROTATION
TAPE END
OK
LOADING
NG
CHECK LOADING
OK
CHECK CAPSTAN ROTATION

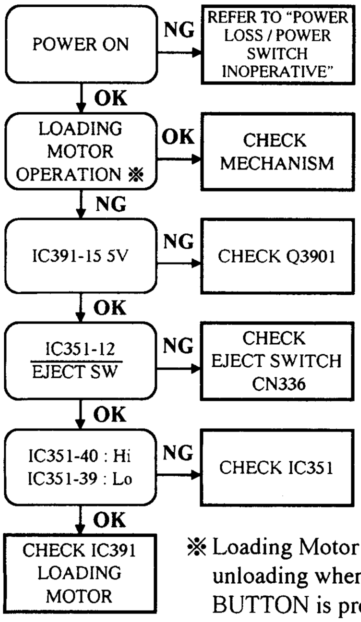
ON-SCREEN DISPLAY INOPERATIVE


INDICATIONS
ALL
IC321-19 (H SYNC)
NG
CHECK IC323
PART
OK
IC321-18 (V SYNC)
NG
CHECK IC351, IC323
OK
IC321-8, 9 PULSE
NG
CHECK T3201
OK
RB321 SIGNAL LINE BETWEEN IC321 and IC351
TIME DISPLAY
NO
IC321-12 PULSE
NG
CHECK IC321
OK
YES
IC321-14 PULSE
OK
CHECK VIDEO CIRCUIT
NG
CHECK IC321

POWER LOSS / POWER SWITCH INOPERATIVE


POWER SW
OFF
POWER SWITCH ON
NORMAL
ON
CAMERA
POWER SW
STAND-BY SW
POWER SAVE
STAND-BY SW STANDBY
PLAYER
STANDBY
IC351-4, 38, 87 5V
NG
IC341-8 MORE THAN 6V
NG
CHECK F3001 etc. POWER SUPPLY
OK
OK
IC341-1 5V
NG
CHECK IC341
OK
CHECK L3501
IC351-8 5V
NG
CHECK IC341, RB351
OK
IC351-49 5V
NG
CHECK IC341, R3402
OK
IC351-50, 51 OSCILLATION
NG
CHECK IC351, X3501
OK
IC351-10 or 11 0V
NG
CHECK IC351, S3003, RB315
OK
IC351-59 5V
NG
CHECK IC351
OK
CHECK PW1

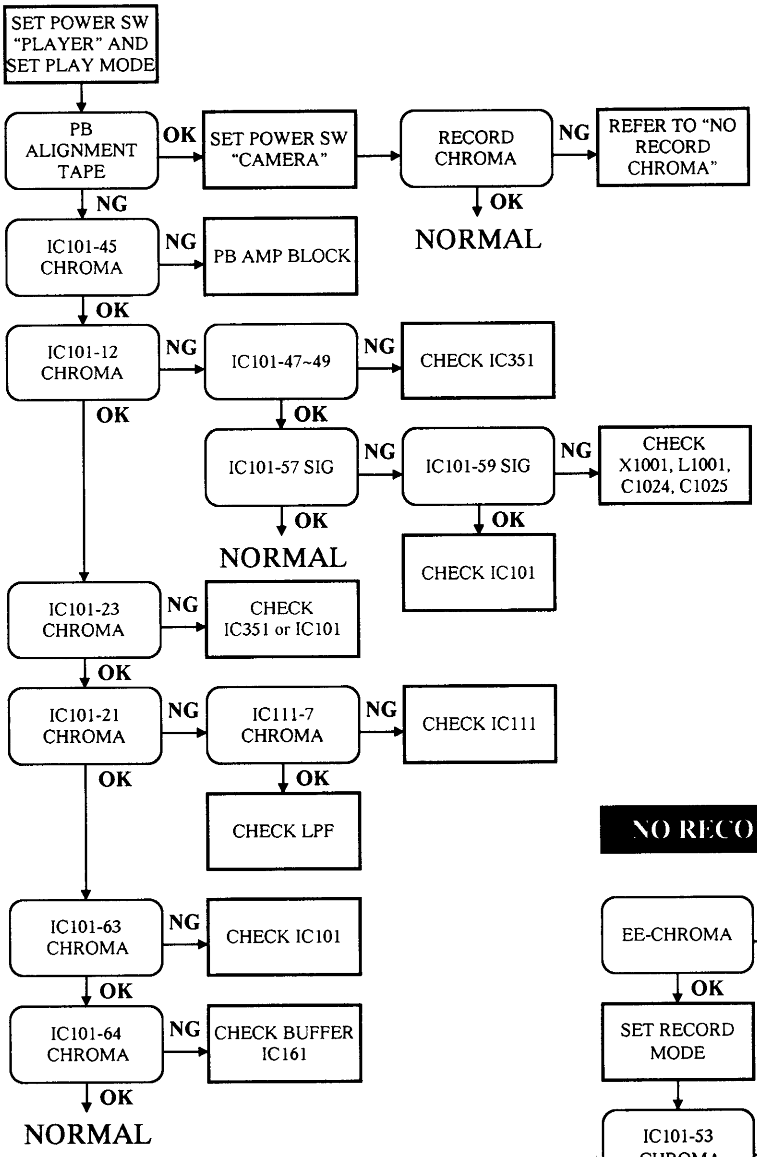
EJECT INOPERATIVE


POWER ON
NG
REFER TO "POWER LOSS / POWER SWITCH INOPERATIVE"
OK
LOADING MOTOR OPERATION ※
OK
CHECK MECHANISM
NG
IC391-15 5V
NG
CHECK Q3901
OK
IC351-12 EJECT SW
NG
CHECK EJECT SWITCH CN336
OK
IC351-40 : Hi IC351-39 : Lo
NG
CHECK IC351
OK
CHECK IC391 LOADING MOTOR

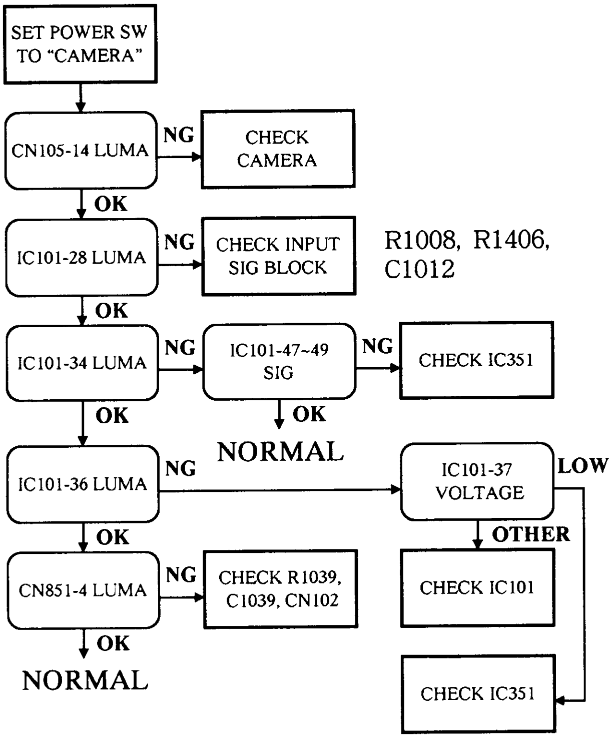
※ Loading Motor starts unloading when EJECT BUTTON is pressed.

8-3. VIDEO CIRCUIT

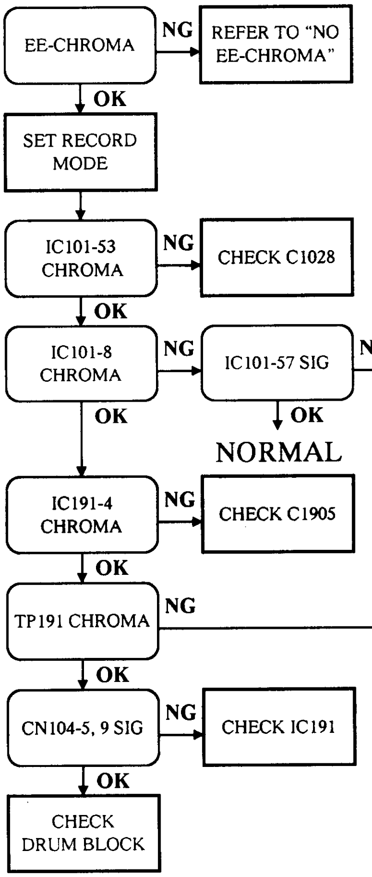
NO PLAY CHROMA

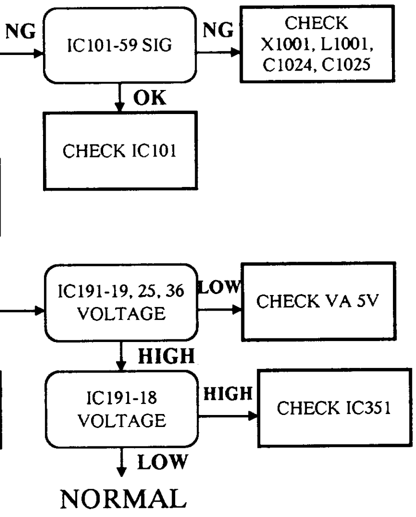

SET POWER SW "PLAYER" AND SET PLAY MODE
PB ALIGNMENT TAPE
OK
SET POWER SW "CAMERA"
RECORD CHROMA
NG
REFER TO "NO RECORD CHROMA"
OK
NORMAL
NG
IC101-45 CHROMA
NG
PB AMP BLOCK
OK
IC101-12 CHROMA
NG
IC101-47~49
NG
CHECK IC351
OK
OK
IC101-57 SIG
NG
IC101-59 SIG
NG
CHECK X1001, L1001, C1024, C1025
OK
NORMAL
OK
CHECK IC101
IC101-23 CHROMA
NG
CHECK IC351 or IC101
OK
IC101-21 CHROMA
NG
IC111-7 CHROMA
NG
CHECK IC111
OK
OK
CHECK LPF
IC101-63 CHROMA
NG
CHECK IC101
OK
IC101-64 CHROMA
NG
CHECK BUFFER IC161
OK
NORMAL

NO EE-VIDEO MONITOR

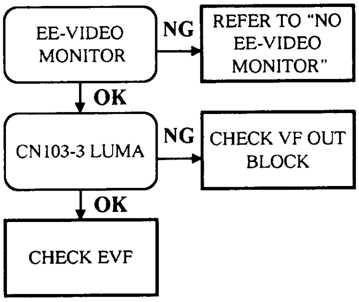

SET POWER SW TO "CAMERA"
CN105-14 LUMA
NG
CHECK CAMERA
OK
IC101-28 LUMA
NG
CHECK INPUT SIG BLOCK
R1008, R1406, C1012
OK
IC101-34 LUMA
NG
IC101-47~49 SIG
NG
CHECK IC351
OK
NORMAL
OK
IC101-36 LUMA
NG
IC101-37 VOLTAGE
LOW
OTHER
CHECK IC101
OK
CN851-4 LUMA
NG
CHECK R1039, C1039, CN102
OK
NORMAL
CHECK IC351

NO RECORD CHROMA

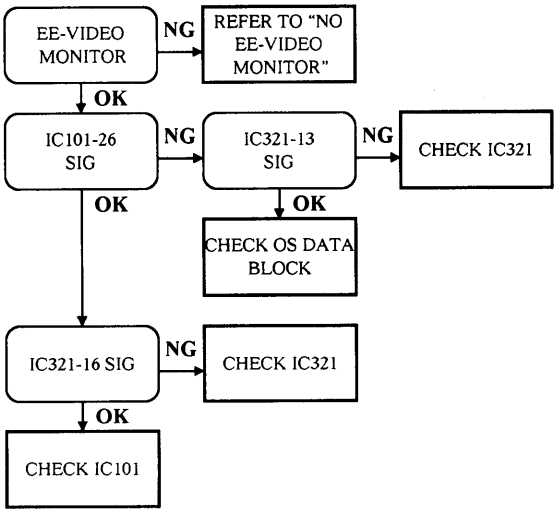

EE-CHROMA
NG
REFER TO "NO EE-CHROMA"
OK
SET RECORD MODE
IC101-53 CHROMA
NG
CHECK C1028
OK
IC101-8 CHROMA
NG
IC101-57 SIG
OK
OK
NORMAL
IC191-4 CHROMA
NG
CHECK C1905
OK
TP191 CHROMA
NG
OK
CN104-5, 9 SIG
NG
CHECK IC191
OK
CHECK DRUM BLOCK


NG
IC101-59 SIG
NG
CHECK X1001, L1001, C1024, C1025
OK
CHECK IC101
IC191-19, 25, 36 VOLTAGE
LOW
CHECK VA 5V
HIGH
IC191-18 VOLTAGE
HIGH
CHECK IC351
LOW
NORMAL

NO PICTURE IN EVF


EE-VIDEO MONITOR
NG
REFER TO "NO EE-VIDEO MONITOR"
OK
CN103-3 LUMA
NG
CHECK VF OUT BLOCK
OK
CHECK EVF

ON-SCREEN DISPLAY INOPERATIVE

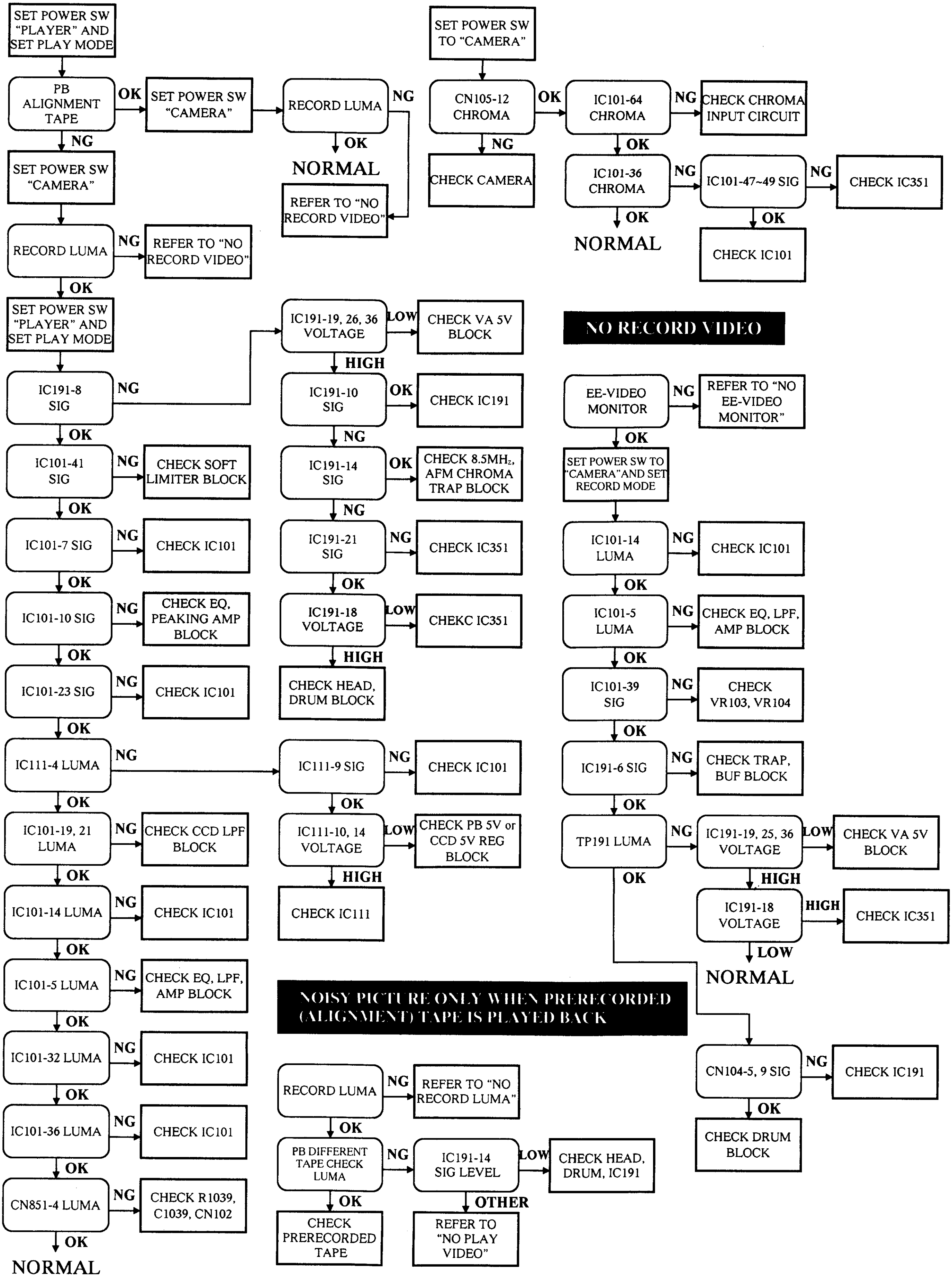

EE-VIDEO MONITOR
NG
REFER TO "NO EE-VIDEO MONITOR"
OK
IC101-26 SIG
NG
IC321-13 SIG
NG
CHECK IC321
OK
OK
CHECK OS DATA BLOCK
IC321-16 SIG
NG
CHECK IC321
OK
CHECK IC101

NO PLAY VIDEO

NO EE-CHROMA

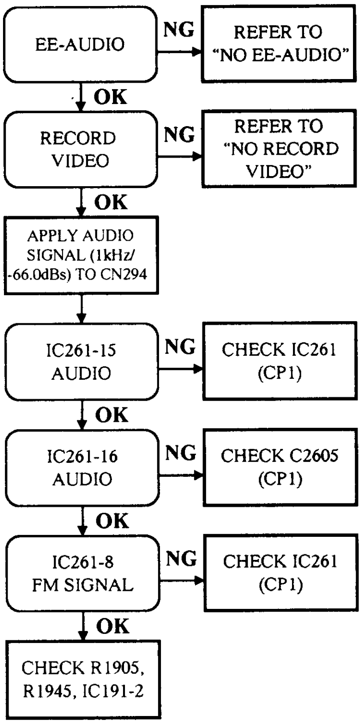
NO RECORD VIDEO

NOISY PICTURE ONLY WHEN PRERECORDED (ALIGNMENT) TAPE IS PLAYED BACK

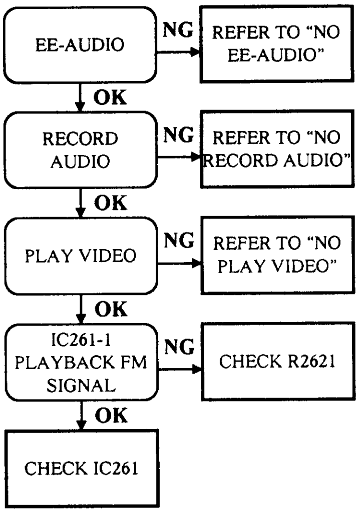

SET POWER SW "PLAYER" AND SET PLAY MODE
PB ALIGNMENT TAPE
OK
SET POWER SW "CAMERA"
RECORD LUMA
NG
OK
NORMAL
REFER TO "NO RECORD VIDEO"
NG
SET POWER SW "CAMERA"
RECORD LUMA
NG
REFER TO "NO RECORD VIDEO"
OK
SET POWER SW "PLAYER" AND SET PLAY MODE
IC191-8 SIG
NG
OK
IC101-41 SIG
NG
CHECK SOFT LIMITER BLOCK
OK
IC101-7 SIG
NG
CHECK IC101
OK
IC101-10 SIG
NG
CHECK EQ, PEAKING AMP BLOCK
OK
IC101-23 SIG
NG
CHECK IC101
OK
IC111-4 LUMA
NG
OK
IC101-19, 21 LUMA
NG
CHECK CCD LPF BLOCK
OK
IC101-14 LUMA
NG
CHECK IC101
OK
IC101-5 LUMA
NG
CHECK EQ, LPF, AMP BLOCK
OK
IC101-32 LUMA
NG
CHECK IC101
OK
IC101-36 LUMA
NG
CHECK IC101
OK
CN851-4 LUMA
NG
CHECK R1039, C1039, CN102
OK
NORMAL
IC191-19, 26, 36 VOLTAGE
LOW
CHECK VA 5V BLOCK
HIGH
IC191-10 SIG
OK
CHECK IC191
NG
IC191-14 SIG
OK
CHECK 8.5MHz, AFM CHROMA TRAP BLOCK
NG
IC191-21 SIG
NG
CHECK IC351
OK
IC191-18 VOLTAGE
LOW
CHEKC IC351
HIGH
CHECK HEAD, DRUM BLOCK
IC111-9 SIG
NG
CHECK IC101
OK
IC111-10, 14 VOLTAGE
LOW
CHECK PB 5V or CCD 5V REG BLOCK
HIGH
CHECK IC111
SET POWER SW TO "CAMERA"
CN105-12 CHROMA
OK
NG
CHECK CAMERA
IC101-64 CHROMA
NG
CHECK CHROMA INPUT CIRCUIT
OK
IC101-36 CHROMA
NG
OK
NORMAL
IC101-47~49 SIG
NG
CHECK IC351
OK
CHECK IC101
EE-VIDEO MONITOR
NG
REFER TO "NO EE-VIDEO MONITOR"
OK
SET POWER SW TO "CAMERA" AND SET RECORD MODE
IC101-14 LUMA
NG
CHECK IC101
OK
IC101-5 LUMA
NG
CHECK EQ, LPF, AMP BLOCK
OK
IC101-39 SIG
NG
CHECK VR103, VR104
OK
IC191-6 SIG
NG
CHECK TRAP, BUF BLOCK
OK
TP191 LUMA
NG
IC191-19, 25, 36 VOLTAGE
LOW
CHECK VA 5V BLOCK
HIGH
IC191-18 VOLTAGE
HIGH
CHECK IC351
LOW
NORMAL
OK
CN104-5, 9 SIG
NG
CHECK IC191
OK
CHECK DRUM BLOCK
RECORD LUMA
NG
REFER TO "NO RECORD LUMA"
OK
PB DIFFERENT TAPE CHECK LUMA
NG
IC191-14 SIG LEVEL
LOW
CHECK HEAD, DRUM, IC191
OTHER
REFER TO "NO PLAY VIDEO"
OK
CHECK PRERECORDED TAPE

8-4. AUDIO CIRCUIT (For VM-EX220P)

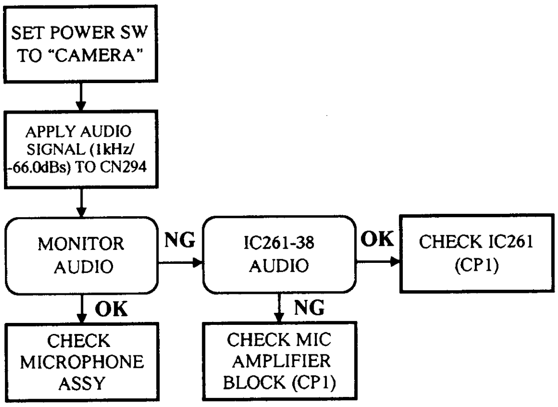
NO RECORD AUDIO


EE-AUDIO
NG
REFER TO "NO EE-AUDIO"
OK
RECORD VIDEO
NG
REFER TO "NO RECORD VIDEO"
OK
APPLY AUDIO SIGNAL (1kHz/-66.0dBs) TO CN294
IC261-15 AUDIO
NG
CHECK IC261 (CP1)
OK
IC261-16 AUDIO
NG
CHECK C2605 (CP1)
OK
IC261-8 FM SIGNAL
NG
CHECK IC261 (CP1)
OK
CHECK R1905, R1945, IC191-2

NO PLAY AUDIO

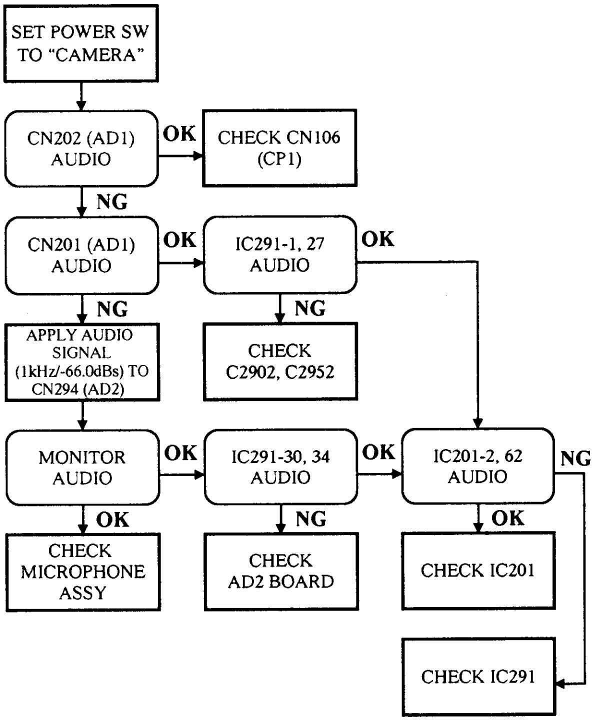

EE-AUDIO
NG
REFER TO "NO EE-AUDIO"
OK
RECORD AUDIO
NG
REFER TO "NO RECORD AUDIO"
OK
PLAY VIDEO
NG
REFER TO "NO PLAY VIDEO"
OK
IC261-1 PLAYBACK FM SIGNAL
NG
CHECK R2621
OK
CHECK IC261

NO EE-AUDIO

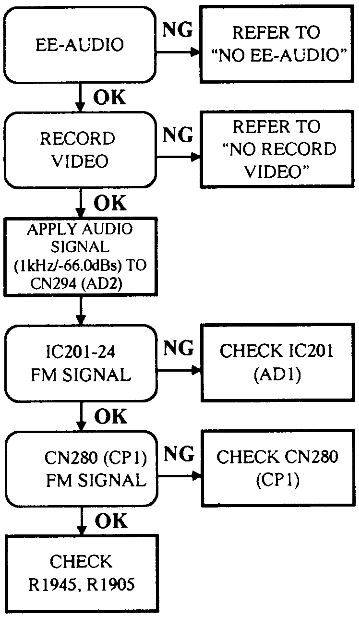

SET POWER SW TO "CAMERA"
APPLY AUDIO SIGNAL (1kHz/-66.0dBs) TO CN294
MONITOR AUDIO
NG
IC261-38 AUDIO
OK
CHECK IC261 (CP1)
NG
CHECK MIC AMPLIFIER BLOCK (CP1)
OK
CHECK MICROPHONE ASSY

8-5. AUDIO CIRCUIT (For VM-EX280P/370P)

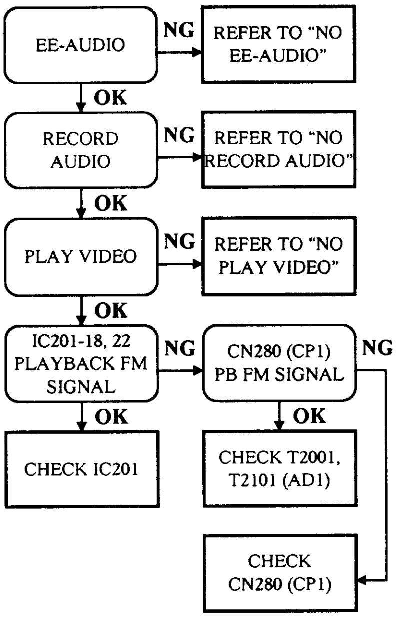
NO EE-AUDIO


SET POWER SW TO "CAMERA"
CN202 (AD1) AUDIO
OK
CHECK CN106 (CP1)
NG
CN201 (AD1) AUDIO
OK
IC291-1, 27 AUDIO
OK
NG
CHECK C2902, C2952
NG
APPLY AUDIO SIGNAL (1kHz/-66.0dBs) TO CN294 (AD2)
MONITOR AUDIO
OK
IC291-30, 34 AUDIO
OK
IC201-2, 62 AUDIO
NG
CHECK IC291
OK
CHECK IC201
NG
CHECK AD2 BOARD
OK
CHECK MICROPHONE ASSY

NO RECORD AUDIO

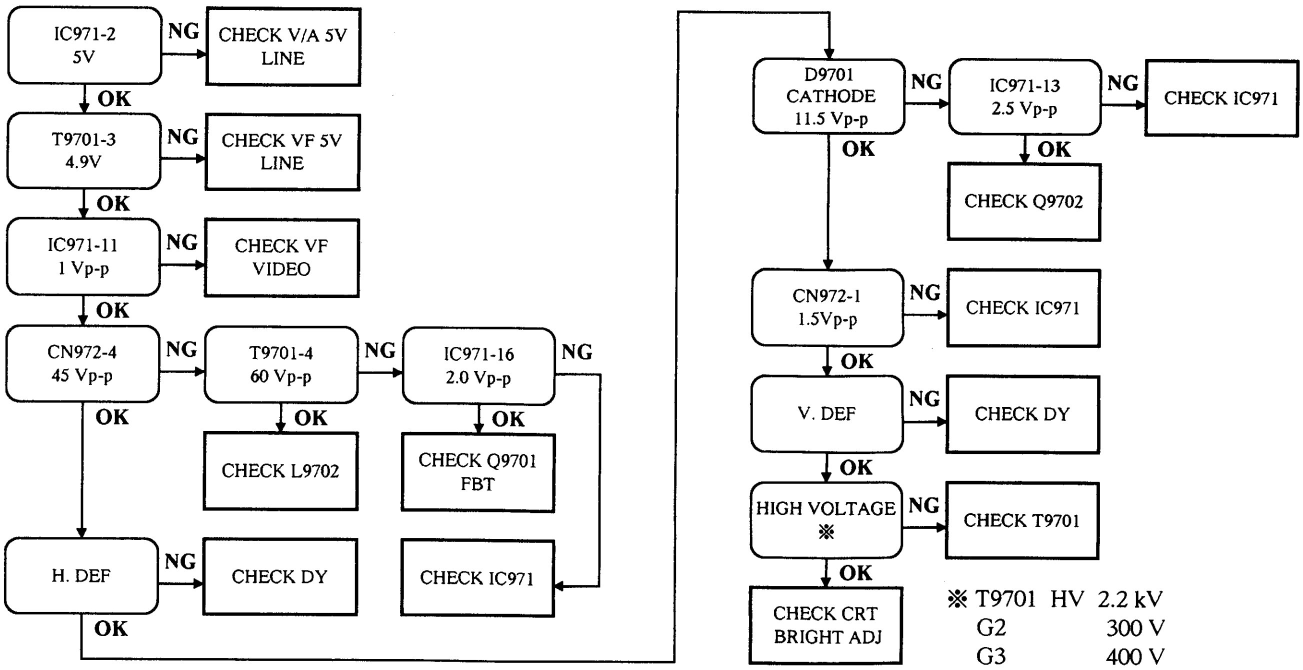

EE-AUDIO
NG
REFER TO "NO EE-AUDIO"
OK
RECORD VIDEO
NG
REFER TO "NO RECORD VIDEO"
OK
APPLY AUDIO SIGNAL (1kHz/-66.0dBs) TO CN294 (AD2)
IC201-24 FM SIGNAL
NG
CHECK IC201 (AD1)
OK
CN280 (CP1) FM SIGNAL
NG
CHECK CN280 (CP1)
OK
CHECK R1945, R1905

NO PLAY AUDIO


EE-AUDIO
NG
REFER TO "NO EE-AUDIO"
OK
RECORD AUDIO
NG
REFER TO "NO RECORD AUDIO"
OK
PLAY VIDEO
NG
REFER TO "NO PLAY VIDEO"
OK
IC201-18, 22 PLAYBACK FM SIGNAL
NG
CN280 (CP1) PB FM SIGNAL
NG
CHECK CN280 (CP1)
OK
CHECK T2001, T2101 (AD1)
OK
CHECK IC201

8-6. VIEWFINDER CIRCUIT (For VM-EX220P/280P)

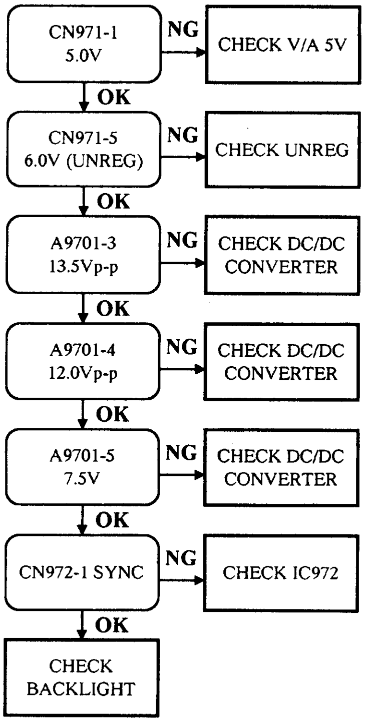
NO EVF RASTER



IC971-2 5V
NG
CHECK V/A 5V LINE
OK
T9701-3 4.9V
NG
CHECK VF 5V LINE
OK
IC971-11 1 Vp-p
NG
CHECK VF VIDEO
OK
CN972-4 45 Vp-p
NG
T9701-4 60 Vp-p
NG
IC971-16 2.0 Vp-p
NG
OK
CHECK L9702
OK
CHECK Q9701 FBT
OK
H. DEF
NG
CHECK DY
CHECK IC971
OK
D9701 CATHODE 11.5 Vp-p
NG
IC971-13 2.5 Vp-p
NG
CHECK IC971
OK
CHECK Q9702
OK
CN972-1 1.5Vp-p
NG
CHECK IC971
OK
V. DEF
NG
CHECK DY
OK
HIGH VOLTAGE ※
NG
CHECK T9701
OK
CHECK CRT BRIGHT ADJ
※ T9701 HV 2.2 kV
G2 300 V
G3 400 V

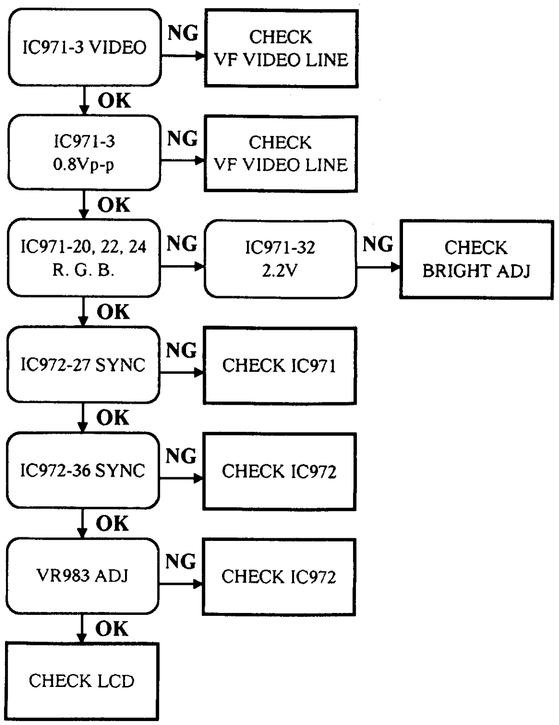
8-7. VIEWFINDER CIRCUIT (For VM-EX370P)

NO EVF RASTER



CN971-1 5.0V
NG
CHECK V/A 5V
OK
CN971-5 6.0V (UNREG)
NG
CHECK UNREG
OK
A9701-3 13.5Vp-p
NG
CHECK DC/DC CONVERTER
OK
A9701-4 12.0Vp-p
NG
CHECK DC/DC CONVERTER
OK
A9701-5 7.5V
NG
CHECK DC/DC CONVERTER
OK
CN972-1 SYNC
NG
CHECK IC972
OK
CHECK BACKLIGHT

NO VF VIDEO



IC971-3 VIDEO
NG
CHECK VF VIDEO LINE
OK
IC971-3 0.8Vp-p
NG
CHECK VF VIDEO LINE
OK
IC971-20, 22, 24 R. G. B.
NG
IC971-32 2.2V
NG
CHECK BRIGHT ADJ
OK
IC972-27 SYNC
NG
CHECK IC971
OK
IC972-36 SYNC
NG
CHECK IC972
OK
VR983 ADJ
NG
CHECK IC972
OK
CHECK LCD

SANYO

FILE No.

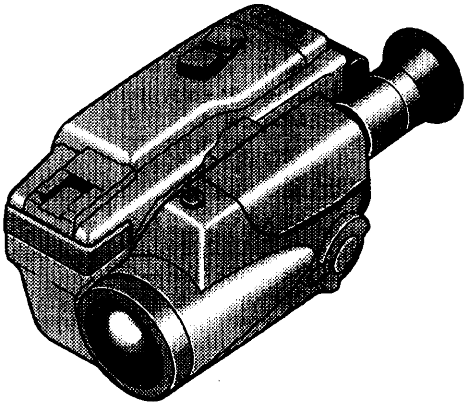
PARTS LIST

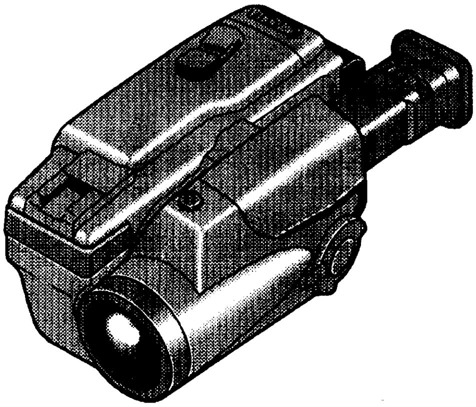
8 mm Camcorder

VM-EX220P
(U.K.)
(EUROPE)
(GENEAL AREA)
(AUSTRALIA)

VM-EX280P
(U.K.)

VM-EX370P
(U.K.)
(EUROPE)





VM-EX220P

Production Code No.
126 050 01 (U.K.)
126 050 04 (EUROPE)
126 050 05 (GENERAL AREA)
126 050 06 (AUSTRALIA)

VM-EX280P

Production Code No.
126 052 00 (U.K.)

VM-EX370P

Production Code No.
126 053 00 (U.K.)
126 053 02 (EUROPE)

8 PAL

Contents

Page
ACCESSORIES AND OTHERS ······ 1
CABINET 1 ······ 2
CABINET 2 ······ 3, 4
CABINET 3 ······ 5, 6
VIEWFINDER ······ 7, 8
CAMERA ······ 9
MECHANISM 1 ······ 10

Page
MECHANISM 2 ······ 11
MECHANISM 3 ······ 12
MECHANISM 4 ······ 13
ELECTRICAL PARTS ······ 14
ELECTRICAL PARTS ······ 24
(General parts)

PRODUCT SAFETY NOTICE

The components designated by a symbol (⚠) in this schematic diagram designates components whose value are of special significance to product safety. Should any component designated by a symbol need to be replaced, use only the part designated in the Parts List. Do not deviate from the resistance wattage and voltage rating shown.

Note :

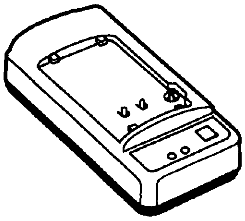
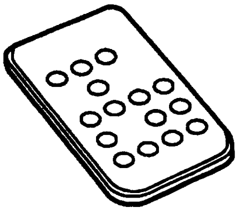
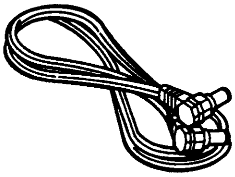
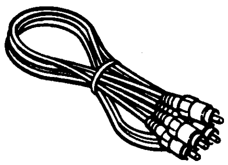
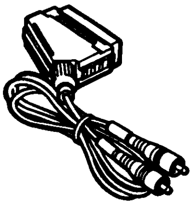
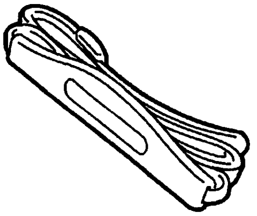
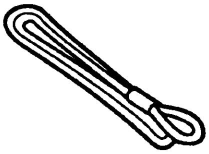
- The resistance values and capacitance values for the general-purpose resistors and capacitors in the part list have been omitted. To find out these resistance and capacitance values, refer to the values given in the circuit diagrams.

ER26P/E, EX, GX, A ER261P/EDX ER271P/E, EX

REFERENCE NO. PL 550030

[ACCESSORIES AND OTHERS]

LOCATION	PARTS No.	DESCRIPTION
1	636 046 6562	CARTON, CASE, INNER (VM-EX220P/E)
2	636 046 8467	CARTON, CASE, INNER (VM-EX220P/EX)
3	636 046 8474	CARTON, CASE, INNER (VM-EX220P/GX)
4	636 046 8481	CARTON, CASE, INNER (VM-EX220P/A)
5	636 046 6593	CARTON, CASE, INNER (VM-EX280P/EDX)
6	636 046 6609	CARTON, CASE, INNER (VM-EX370P/E)
7	636 047 0132	CARTON, CASE, INNER (VM-EX370P/EX)
8	636 043 2161	CUSHION, INNER, TOP
9	636 043 2178	CUSHION, INNER, BOTTOM
10	645 007 7760	ASSY, ADAPTOR, AC-DC (VM-EX220P/E)(VM-EX280P/EDX)(VM-EX370P/E)
11	645 008 5758	ASSY, ADAPTOR, AC-DC (VM-EX220P/EX, GX)(VM-EX370P/EX)
12	645 008 5673	ASSY, ADAPTOR, AC-DC (VM-EX220P/A)
13	636 046 6463	INSTRUCTION MANUAL (VM-EX220P/E, A)
14	636 046 9105	INSTRUCTION MANUAL (ENGLISH/FRENCH/SPANISH)(VM-EX220P/EX, GX)
15	636 046 9112	INSTRUCTION MANUAL (GERMAN/ITALIAN/DUTCH)(VM-EX220P/EX)
16	636 047 0200	INSTRUCTION MANUAL (DANISH/PORTUGUESE/SWEDISH/FINNISH)(VM-EX220P/EX)
17	636 046 9129	INSTRUCTION MANUAL (ARABIC/RUSSIAN/CHINESE)(VM-EX220P/GX)
18	636 046 6920	INSTRUCTION MANUAL (VM-EX280P/EDX)
19	636 046 6937	INSTRUCTION MANUAL (VM-EX370P/E)
20	636 047 0156	INSTRUCTION MANUAL (ENGLISH/FRENCH/SPANISH)(VM-EX370P/EX)
21	636 047 0163	INSTRUCTION MANUAL (GERMAN/ITALIAN/DUTCH)(VM-EX370P/EX)
22	636 047 0170	INSTRUCTION MANUAL (DANISH/PORTUGUESE/SWEDISH/FINNISH)(VM-EX370P/EX)
23	645 009 4019	REMOCON
24	636 040 2478	CABLE, DC OUTPUT
OR	645 005 7335	CABLE, DC OUTPUT
25	636 031 2302	CABLE, RCA (VM-EX220P/E, EX, GX, A)
OR	645 003 3391	CABLE, AV 2PIN (VM-EX220P/E, EX, GX, A)
26	645 002 9301	CABLE, AV 3PIN (VM-EX280P/EDX)(VM-EX370P/E)
OR	645 003 3414	CABLE, A/V (-3) (VM-EX280P/EDX)(VM-EX370P/E)
27	645 002 8380	CABLE, SCART ADAPTOR (VM-EX220P/EX, GX)
28	645 002 9745	CABLE, SCART ADAPTOR (VM-EX370P/EX)
29	636 043 2192	ASSY, STRAP, SHOULDER
30	636 043 2598	LENS CAP, STRAP

10, 11, 12 	**23** 	**24** 	**25, 26** 
27, 28 	**29** 	**30** 	

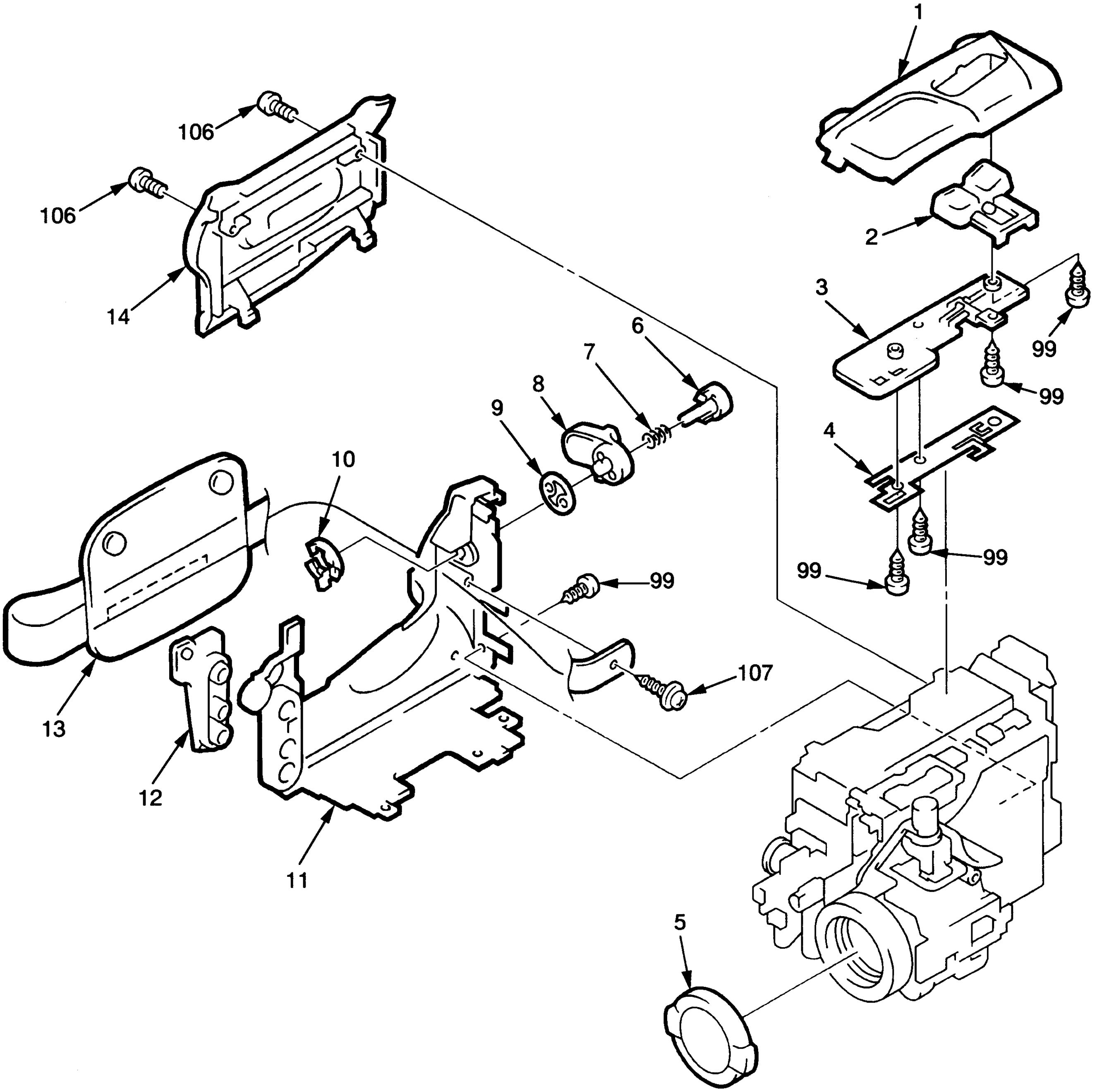
Note : Alphabetic characters enclosed by ( ) in the descriptions indicate destination countries for the VM-EX220P, VM-EX280P and VM-EX370P.

(VM-EX220P) **E** : U.K. **EX** : EUROPE **GX** : GENERAL AREA **A** : AUSTRALIA

(VM-EX280P) **EDX** : U.K. **(VM-EX370P)** **E** : U.K. **EX** : EUROPE

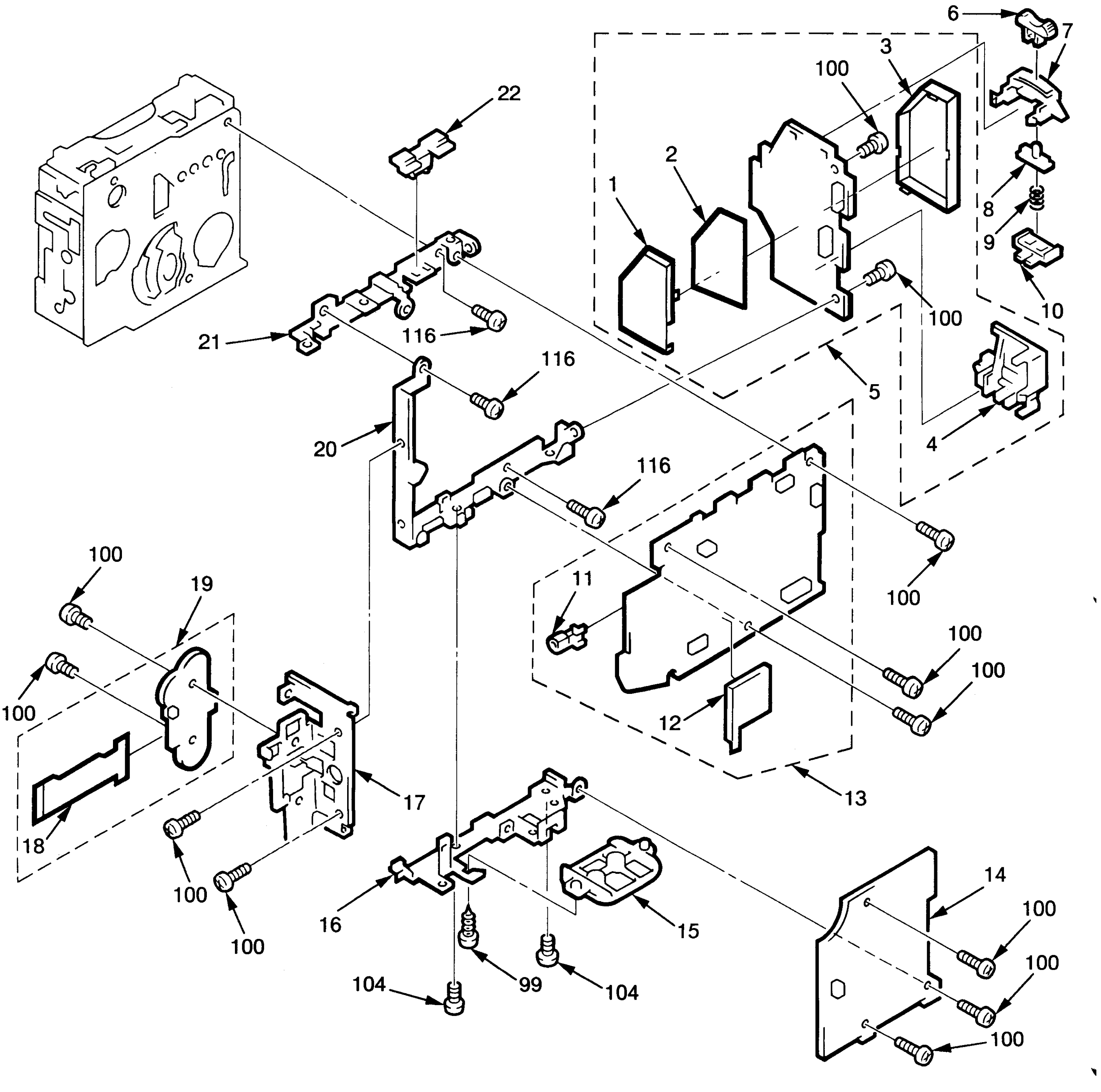
[CABINET 1]

LOCATION	PARTS No.	DESCRIPTION
1	636 046 0775	LID, TOP (VM-EX220P/E, EX, GX, A)(VM-EX370P/E, EX)
1	636 046 8979	LID, TOP(VM-EX280P/EDX)
2	636 042 7167	BUTTON, ZOOM
3	636 042 7297	COVER LID, TOP
4	636 042 7792	SPRING, P, LID
5	636 043 2314	COMPL, CAP LENS
6	636 039 9075	BUTTON, REC
7	636 041 7878	C, SPRING, REC
8	636 040 7121	LEVER, REC
9	636 039 9341	PLATE SPRING, REC
10	636 039 9211	HOLDER, REC
11	636 046 7637	ASSY, CABINET, RIGHT (VM-EX220P/E, EX, GX, A)
11	636 046 9020	ASSY, CABINET, RIGHT (VM-EX280P/EDX)
11	636 046 7927	ASSY, CABINET, RIGHT (VM-EX370P/E, EX)
12	636 043 0266	COVER, JACK
13	636 046 7514	ASSY, HOLDER, GRIP, BELT (VM-EX220P/E, EX, GX, A)(VM-EX370P/E, EX)
13	636 046 8894	ASSY, HOLDER, GRIP, BELT (VM-EX280P/EDX)
14	636 046 0935	ASSY, DOOR, CASSETTE (VM-EX220P/E, EX, GX, A)(VM-EX370P/E, EX)
14	636 046 9075	ASSY, DOOR, CASSETTE (VM-EX280P/EDX)
99	411 137 3800	SCR S-TPG PAN PCS 2X5
106	411 156 3003	SCR S-TPG PAN PCS 2X6
107	412 045 1001	SPECIAL SCREW 2X5



[CABINET 2] (VM-EX220P ONLY)

LOCATION	PARTS No.	DESCRIPTION
1	636 046 5091	SHIELD CASE, PW1, FRAME
2	636 046 5077	SPACER, INSULATOR
3	636 046 5084	SHIELD CASE, PW1, COVER
4	636 039 9242	HOLDER, TERMINAL
5	636 046 5107	COMPL, PWB, PW-1
6	636 030 0552	KNOB, A
7	636 046 0768	HOLDER, POWER
8	636 034 8110	BUTTON, POWER
9	636 030 0910	SPRING, A
10	636 042 7730	SLIDE, POWER
11	636 043 1843	HOLDER, LED
12	636 043 2376	SHIELD CASE
13	636 046 5978	COMPL, PWB, CP-1 406404
14	636 046 6227	COMPL, PWB, CP-2
15	636 039 9518	STAND, TRI POD
16	636 042 7457	HOLDER, PCB
17	636 042 8416	HOLDER, BRACKET AV
18	636 043 7913	FLEXIBLE, PWB, TB2 &CP1
19	636 044 8636	COMPL, PWB, TB-2
20	636 042 7471	HOLDER, MECHA, B
21	636 042 7464	HOLDER, MECHA, A
22	636 046 3646	LEVER, ZOOM
99	411 137 3800	SCR S-TPG PAN PCS 2X5
100	411 154 5504	SCR S-TPG PAN PCS 1.7X4
104	411 159 8302	SCR S-TPG PAN PCS 1.7X6
116	412 051 5703	SPECIAL SCREW 1.4X3.3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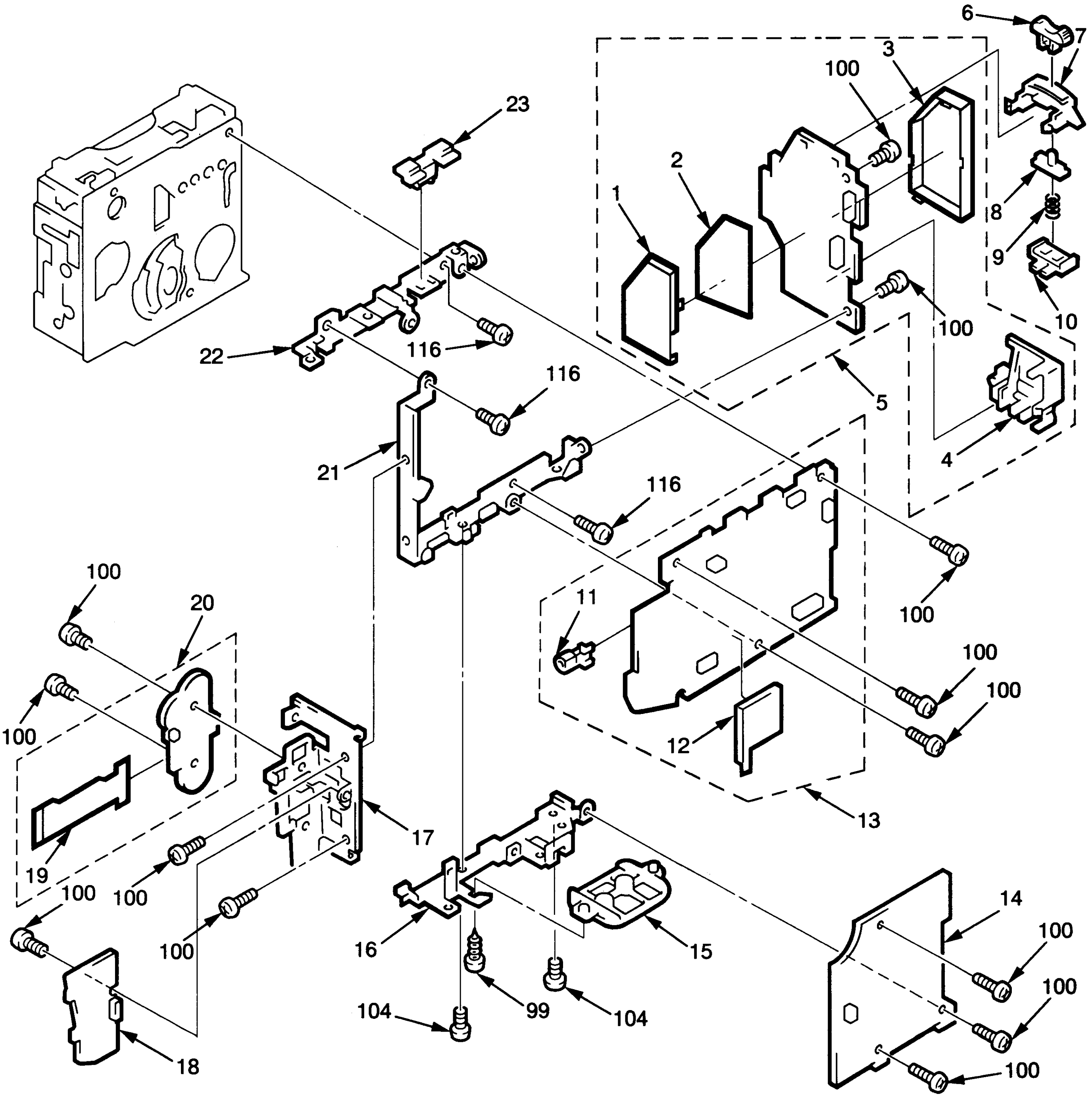
【CABINET 2】 (VM-EX280P and VM-EX370P ONLY)

LOCATION	PARTS No.	DESCRIPTION
1	636 046 5091	SHIELD CASE, PW1, FRAME
2	636 046 5077	SPACER, INSULATOR
3	636 046 5084	SHIELD CASE, PW1, COVER
4	636 039 9242	HOLDER, TERMINAL
5	636 046 5947	COMPL, PWB, PW-1
6	636 030 0552	KNOB, A
7	636 046 0768	HOLDER, POWER
8	636 034 8110	BUTTON, POWER
9	636 030 0910	SPRING, A
10	636 042 7730	SLIDE, POWER
11	636 043 1843	HOLDER, LED
12	636 043 2376	SHIELD CASE
13	636 046 5992	COMPL, PWB, CP-1 -906439. (ER280P/EDX)
13	636 046 6975	COMPL, PWB, CP-1 (ER370P/E, EX)
14	636 047 0644	COMPL, PWB, CP-2
15	636 039 9518	STAND, TRI POD
16	636 042 7457	HOLDER, PCB
17	636 042 8416	HOLDER, BRACKET AV
18	636 046 6265	COMPL, PWB, AD-1
19	636 043 7913	FLEXIBLE, PWB, TB2 &CP1
20	636 046 7095	COMPL, PWB, TB-2
21	636 042 7471	HOLDER, MECHA, B
22	636 042 7464	HOLDER, MECHA, A
23	636 046 3646	LEVER, ZOOM
99	411 137 3800	SCR S-TPG PAN PCS 2X5
100	411 154 5504	SCR S-TPG PAN PCS 1.7X4
104	411 159 8302	SCR S-TPG PAN PCS 1.7X6
116	412 051 5703	SPECIAL SCREW 1.4X3.3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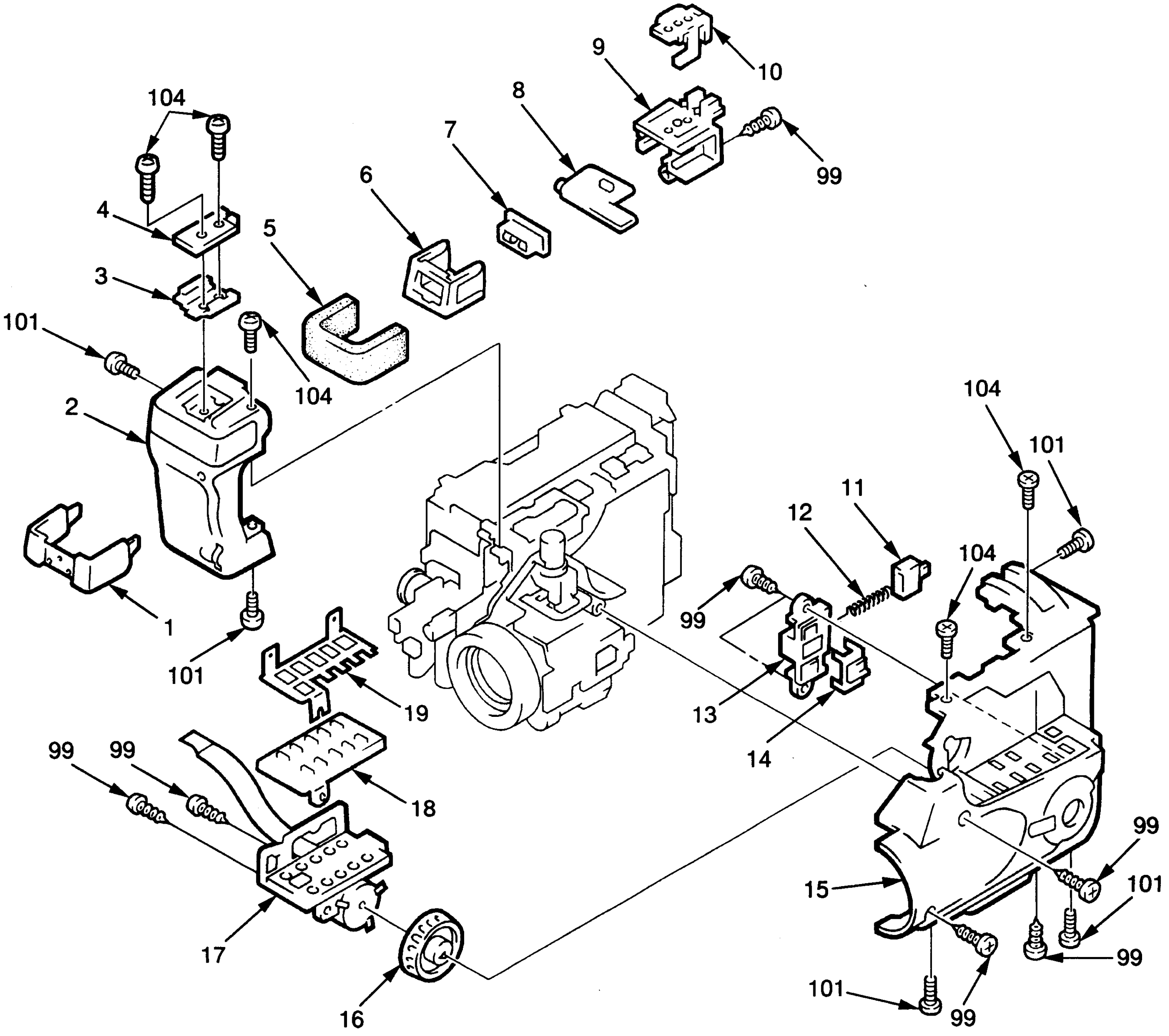
[CABINET 3] (VM-EX220P ONLY)

LOCATION	PARTS No.	DESCRIPTION
1	636 042 7624	NET
2	636 046 7682	CABINET, FRONT
3	636 040 2331	CATCHER ACC
4	636 043 6145	COVER, SHOE
5	636 042 7631	PAD MIC
6	636 044 0104	HOLDER, MIC A
7	636 030 1474	ASSY, MICROPHONE
8	636 046 6012	COMPL, PWB, AD-2
9	636 042 7518	HOLDER, MIC
10	636 042 8409	HOLDER, BRACKET SHOE
11	636 042 7723	SLIDE, BATTERY
12	636 024 7994	SPRING, BATTERY
13	636 042 7532	HOLDER, BATTERY
14	636 042 7587	KNOB, BATTERY
15	636 046 7613	ASSY, CABINET, LEFT
16	636 043 1553	ASSY, BUTTON DIAL
17	645 004 3024	ASSY, SWITCH
18	636 045 9045	ASSY, BUTTON
19	636 042 7365	EARTH, VCR
99	411 137 3800	SCR S-TPG PAN PCS 2X5
101	411 151 9406	SCR S-TPG PAN PCS 1.7X4
104	411 159 8302	SCR S-TPG PAN PCS 1.7X6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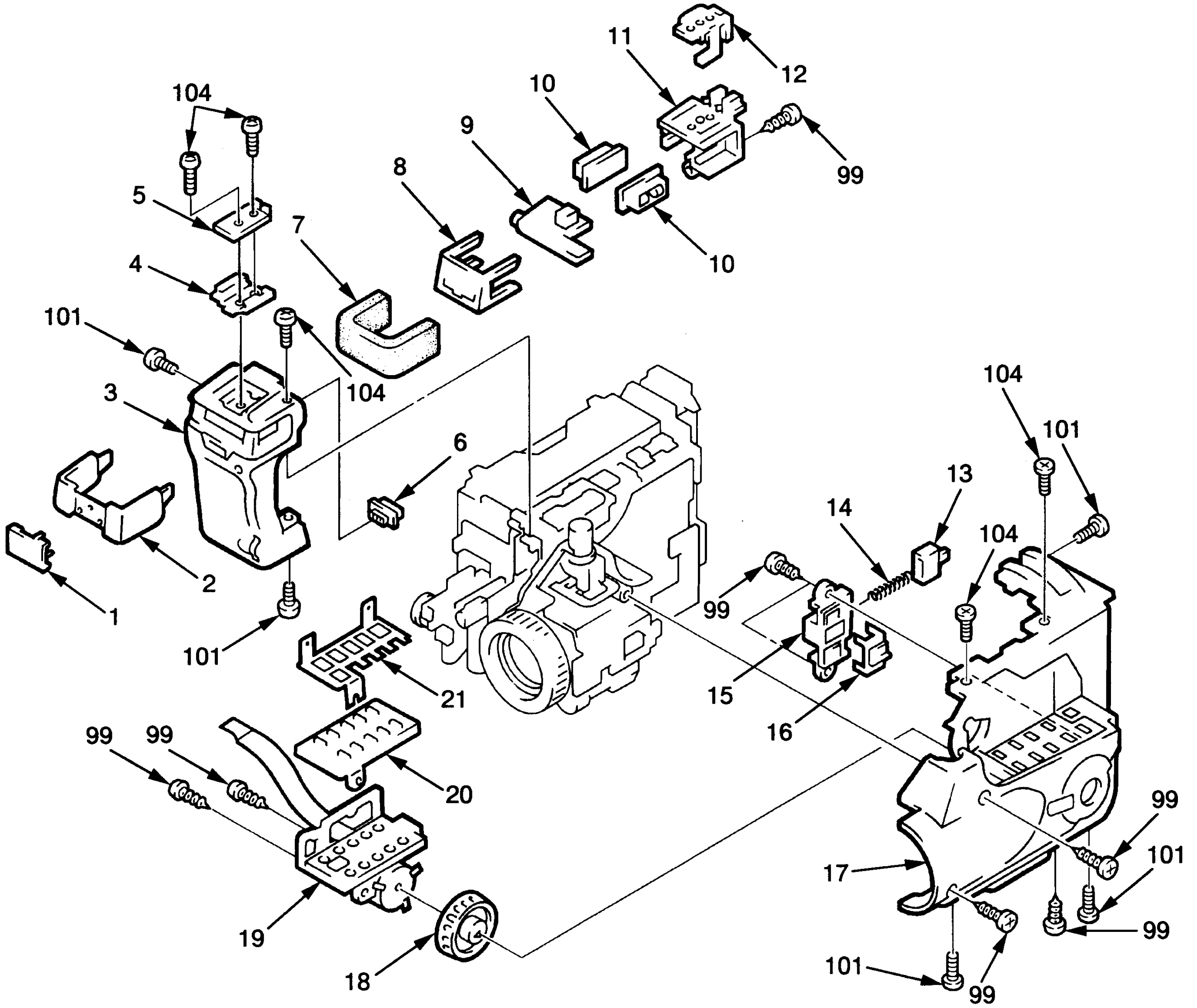
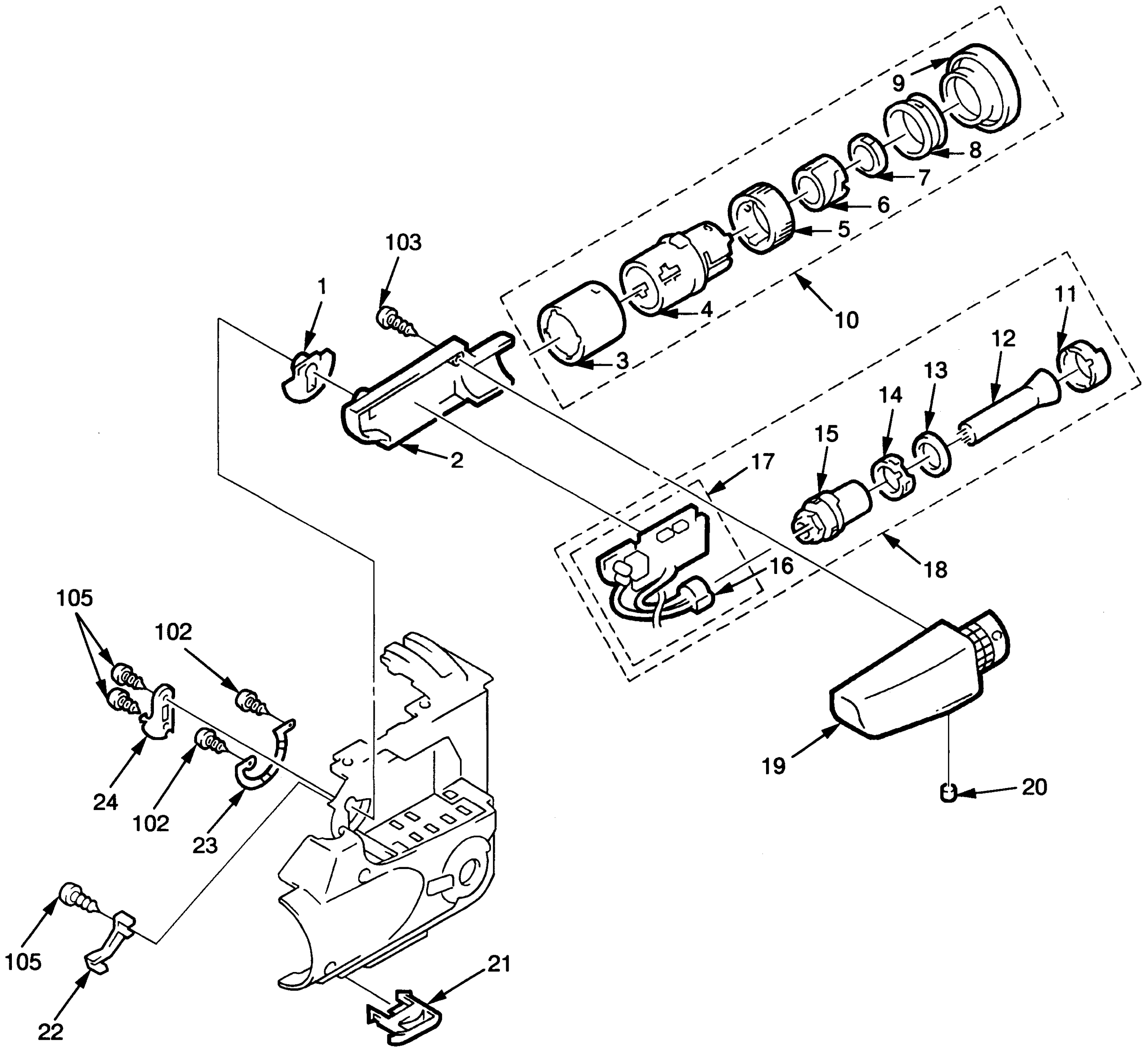
[CABINET 3] (VM-EX280P and VM-EX370P ONLY)

LOCATION	PARTS No.	DESCRIPTION
1	636 043 4677	BADGE STEREO (VM-280P/EDX)
1	636 046 7859	BADGE STEREO (VM-370P/E, EX)
2	636 043 4820	NET
3	636 046 9044	ASSY, CABINET, FRONT (VM-EX280P/EDX)
3	636 046 7941	ASSY, CABINET, FRONT (VM-EX370P/E, EX)
4	636 040 2331	CATCHER ACC
5	636 043 6145	COVER, SHOE
6	636 042 7952	KNOB, MIC
7	636 042 7631	PAD MIC
8	636 044 0388	HOLDER, MIC B
9	636 046 6258	COMPL, PWB, AD-2
10	636 034 2972	ASSY, MICROPHONE
11	636 042 7518	HOLDER, MIC
12	636 042 8409	HOLDER, BRACKET SHOE
13	636 042 7723	SLIDE, BATTERY
14	636 024 7994	SPRING, BATTERY
15	636 042 7532	HOLDER, BATTERY
16	636 042 7587	KNOB, BATTERY
17	636 046 9006	ASSY, CABINET, LEFT (VM-EX280P/EDX)
17	636 046 7903	ASSY, CABINET, LEFT (VM-EX370P/E, EX)
18	636 043 1553	ASSY, BUTTON DIAL
19	645 004 3024	ASSY, SWITCH
20	636 045 9045	ASSY, BUTTON (VM-280P/EDX)
20	636 043 1546	ASSY, BUTTON (VM-370P/E, EX)
21	636 042 7365	EARTH, VCR
99	411 137 3800	SCR S-TPG PAN PCS 2X5
101	411 151 9406	SCR S-TPG PAN PCS 1.7X4
104	411 159 8302	SCR S-TPG PAN PCS 1.7X6



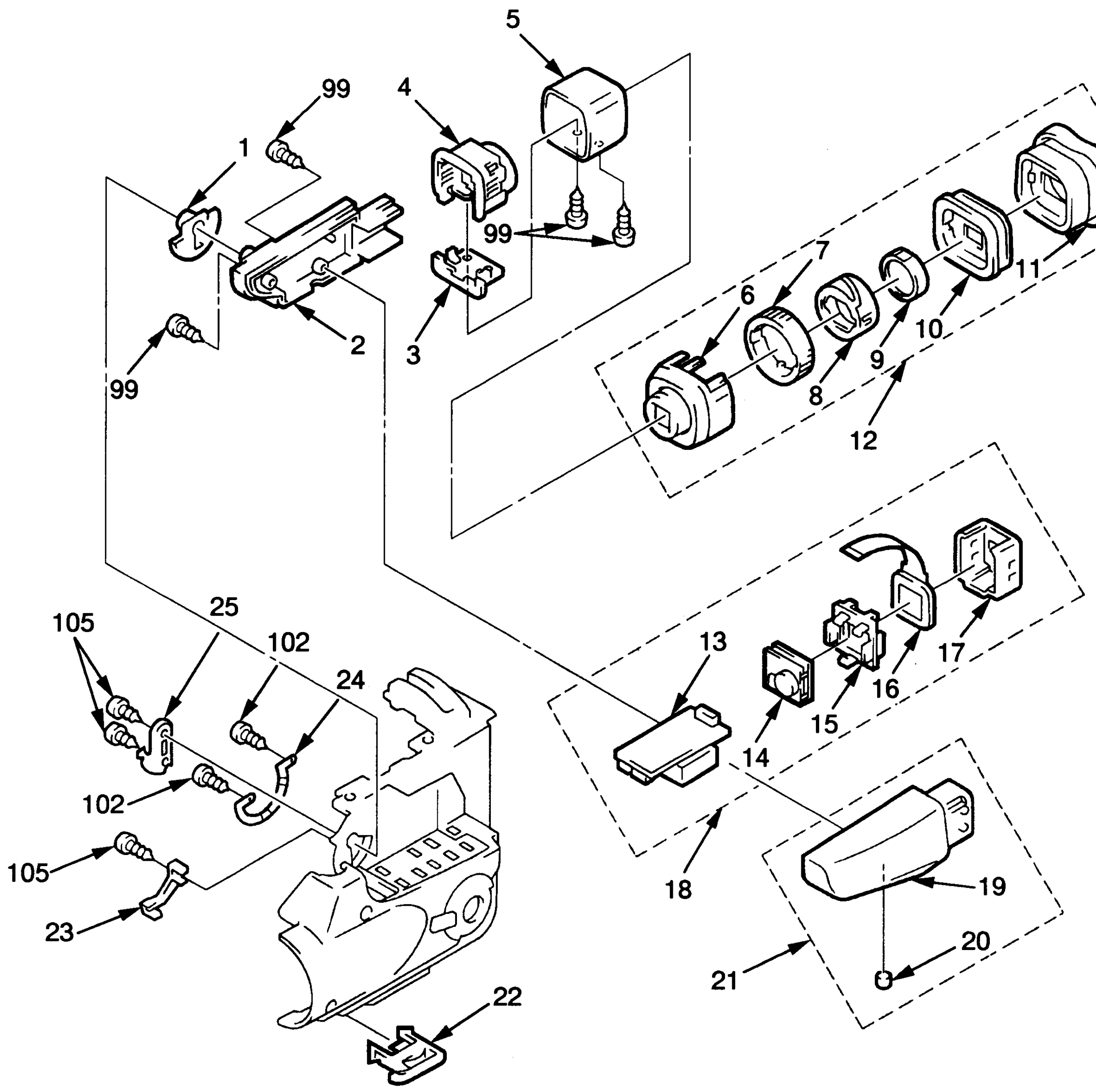
【VIEWFINDER】 (VM-EX220P and VM-EX280P ONLY)

LOCATION	PARTS No.	DESCRIPTION
1	636 042 7969	SPACER, SLEEVE, VF
2	636 046 6807	CABINET, RIGHT, VF (VM-EX220P/E, EX, GX, A)
2	636 046 8948	CABINET, RIGHT, VF (VM-EX280P/EDX)
3	636 039 8825	OUTER SLEEVE, VF
4	636 039 8818	INNER SLEEVE, VF
5	636 039 8788	KNOB, VF
6	636 042 9307	HOLDER, LENS, VF
7	636 039 8726	LENS, VF
OR	636 030 2969	LENS, VF
8	636 039 8757	COVER, SLEEVE, VF
OR	636 030 2860	COVER, SLEEVE, VF
9	636 039 8764	COVER, EYE, VF
10	636 043 0020	COMPL, SLIDE, SLEEVE, VF
11	636 039 8801	HOLDER, CRT, VF
12 ⚠	414 007 3009	CRT M01KQM07WB
13	636 039 9440	RING, RUBBER, VF
14	636 034 7816	RING, VF
15	636 040 2843	YOKE, DEFLECTION
16 ⚠	636 040 2720	HARNESS, WIRE, VF, CRT
17	636 045 6235	COMPL, PWB, VF-1
18	636 045 6242	COMPL, VF-1
19	636 046 6784	CABINET, LEFT, VF (VM-EX220P/E, EX, GX, A)
19	636 046 8931	CABINET, LEFT, VF (VM-EX280P/EDX)
20	636 043 0174	STAND, VF
21	636 046 0782	TRAY LITHIUM (VM-EX220P/E, EX, GX, A)
21	636 046 8986	TRAY LITHIUM (VM-EX280P/EDX)
22	636 044 2214	HOLDER, HARNESS
23	636 042 7808	SPRING, P, VF
24	636 042 8430	HOLDER, BRACKET, VF
102	411 156 6905	SCR TPG PAN PCS 1.7X4
103	411 152 4301	SCR S-TPG PAN PCS 1.7X6
105	411 156 7001	SCR S-TPG PAN PCS 1.7X8



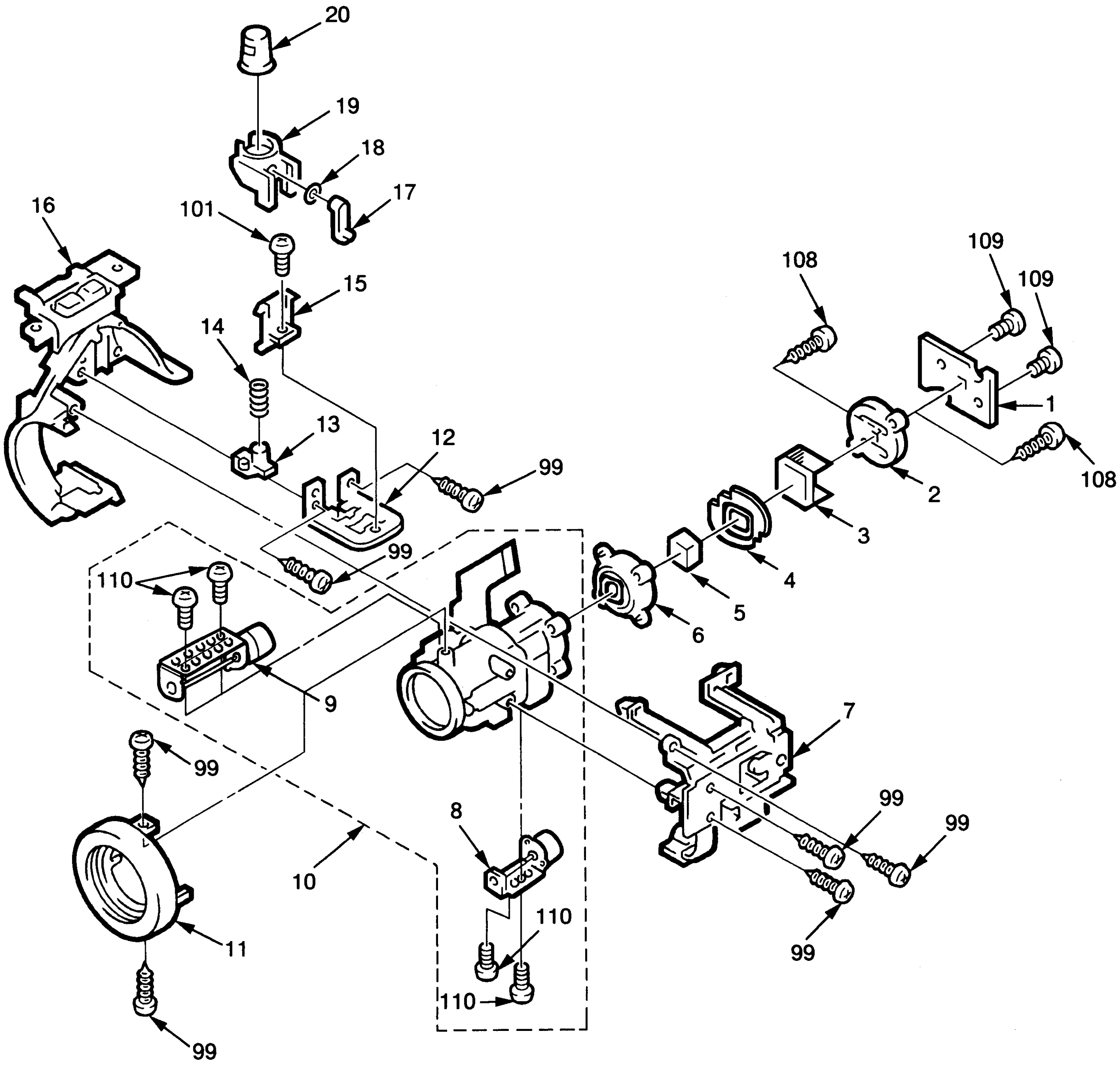
【 VIEWFINDER 】 (VM-EX370P ONLY)

LOCATION	PARTS No.	DESCRIPTION
1	636 042 7969	SPACER, SLEEVE, VF
2	636 046 6821	CABINET, RIGHT, VF
3	636 042 7709	SLIDE, INNER, BOTTOM, VF
4	636 042 7693	SLIDE, INNER, TOP, VF
5	636 042 7686	SLIDE, OUTER, VF
6	636 044 7974	ASSY, OPTICAL SLEEVE
7	636 042 7563	KNOB, VF
8	636 042 7488	HOLDER, LENS, VF
9	645 002 0599	LENS, CONVEX, VF
10	636 042 7273	COVER, VF
11	636 042 7440	HOOD, VF
12	636 043 4431	COMPL, OPTICAL SLEEVE
13	636 045 9953	COMPL, PWB, VF-1
14	645 005 0398	UNIT, BACKLIGHT
15	636 045 6945	HOLDER, LIGHT, VF
16	645 005 6048	LCD
17	636 045 6938	HOLDER, LCD, VF
18	636 045 9960	COMPL, VF-1
19	636 046 6838	CABINET, LEFT, VF
20	636 043 0174	STAND, VF
21	636 046 6869	ASSY, CABINET, LEFT, VF
22	636 046 0782	TRAY LITHIUM
23	636 044 2214	HOLDER, HARNESS
24	636 042 7808	SPRING, P, VF
25	636 042 8430	HOLDER, BRACKET, VF
99	411 137 3800	SCR S-TPG PAN PCS 2X5
102	411 156 6905	SCR TPG PAN PCS 1.7X4
105	411 156 7001	SCR S-TPG PAN PCS 1.7X8

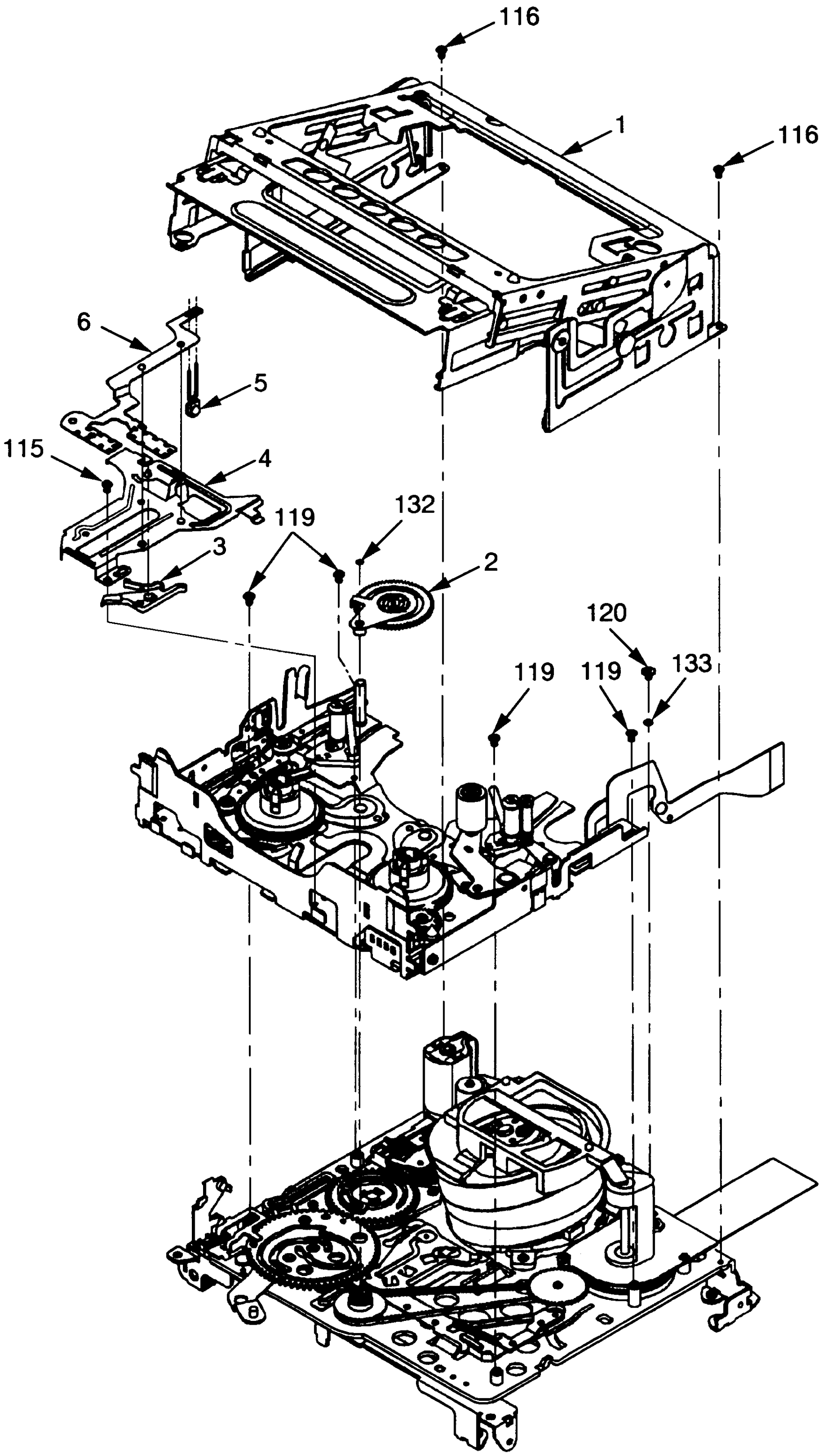


[CAMERA]

LOCATION	PARTS No.	DESCRIPTION
1	636 046 6234	COMPL, PWB, CA-2
2	636 046 5312	MOUNTING LENS
3	409 342 1803	IC ICX057AK-6, CCD
4	636 046 5329	SPACER
5	645 006 8485	OPTICAL FILTER
6	636 046 5305	HOLDER, CCD
7	636 044 8179	HOLDER, LENS
8	645 011 6315	MOTOR, FOCUS DC 0.66W
9	645 011 6308	MOTOR, ZOOM DC 0.72W
10	645 009 5672	ASSY, LENS
11	636 046 7750	RING
12	636 042 8423	HOLDER, BRACKET, REMOCON
13	636 042 7648	REFLECTOR, REMOCON
14	636 042 7778	SPRING, C, REMOCON
15	636 042 7525	HOLDER, REMOCON
16	636 046 7675	ASSY, COVER, FRONT (VM-EX220P/E, EX, GX, A)
16	636 046 9068	ASSY, COVER, FRONT (VM-EX280P/EDX)
16	636 046 7811	ASSY, COVER, FRONT (VM-EX370P/E, EX)
17	636 042 7617	LEVER, REMOCON LOCK
18	636 045 2176	SPACER POP UP
19	636 042 7716	SLIDE, REMOCON
20	636 044 1415	ASSY, HOLDER, IR
99	411 137 3800	SCR S-TPG PAN PCS 2X5
101	411 151 9406	SCR S-TPG PAN PCS 1.7X4
108	411 021 0205	SCR S-TPG BIN 2X12
109	411 002 4901	SCR PAN 2X4
110	411 153 0609	SCR S-TPG PAN PCS 1.7X4

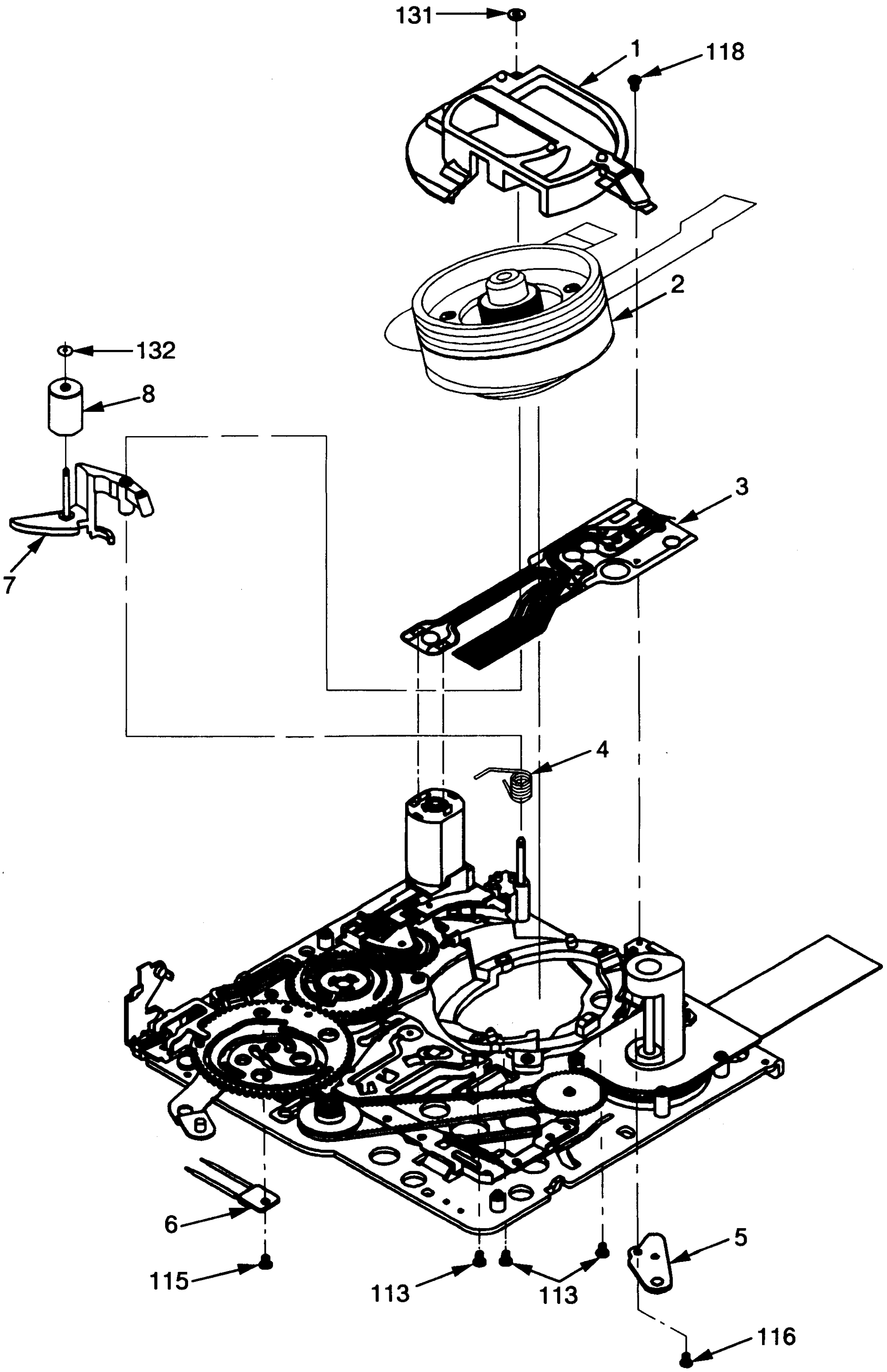


LOCATION	PARTS No.	DESCRIPTION	LOCATION	PARTS No.	DESCRIPTION
[MECHANISM 1]					
1	636 046 4506	COMPL, CASSETTE MECHA	115	411 155 6005	SCR S-TPG PAN PCS 1.4X2.2
2	636 045 3791	ASSY, LEVER, IDLER	116	412 051 5703	SPECIAL SCREW 1.4X3.3
3	636 046 5718	LEVER, LATCH	119	412 051 3204	SPECIAL SCREW 1.4X2.5
4	636 046 5725	MOUNTING BRACKET	120	412 046 7903	SPECIAL SCREW 1.4X3.0
5	407 156 3402	LED GL453	132	412 046 8207	SPECIAL WASHER 1.0X0.25
6	636 045 5504	FLEXIBLE PWB, LED	133	412 051 6502	SPECIAL WASHER 1.45X0.3



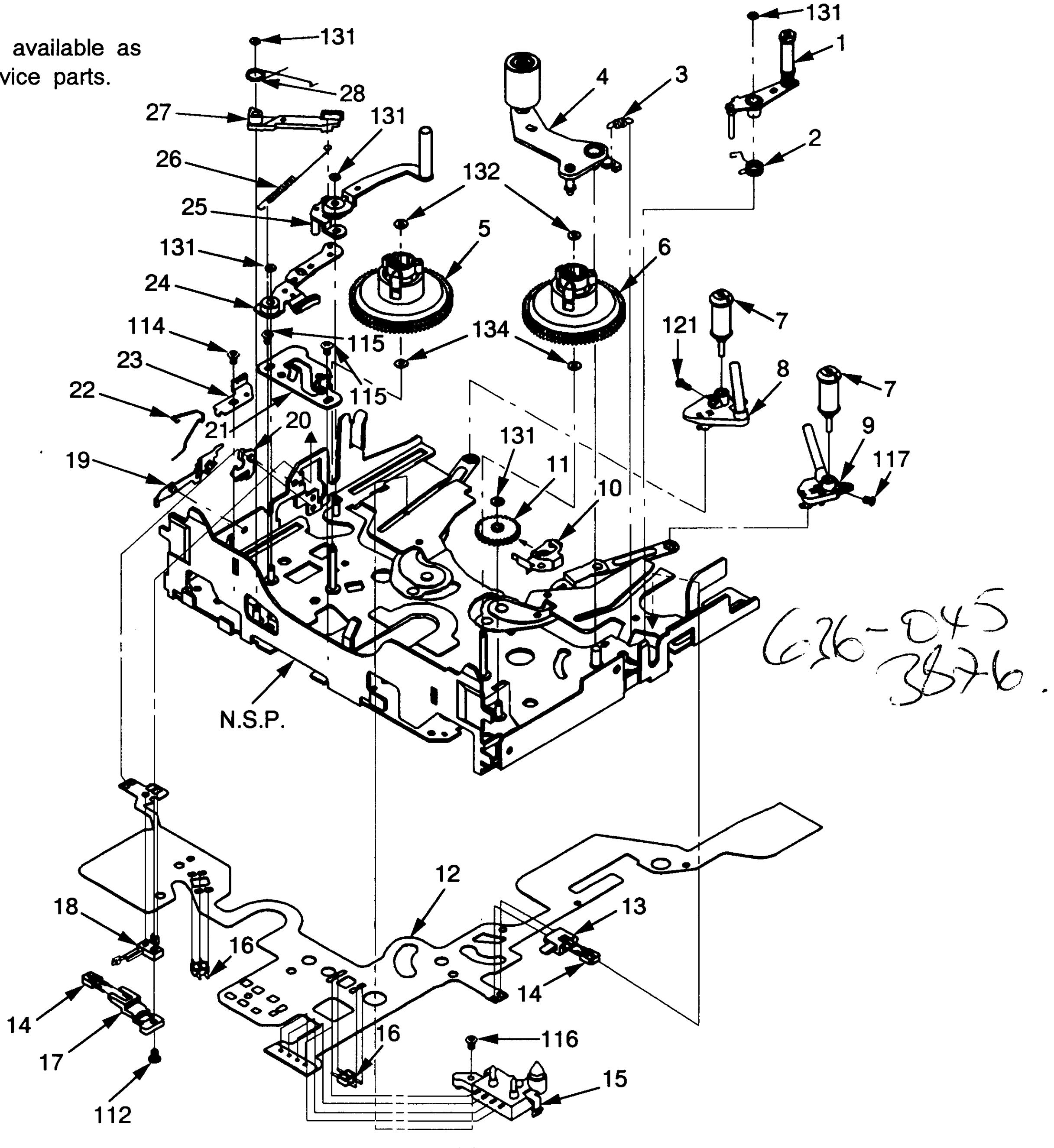
[MECHANISM 2]

LOCATION	PARTS No.	DESCRIPTION
1	636 042 8546	STOPPER, TAPE
2	636 047 0071	HEAD DRUM
3	636 041 5638	FLEXIBLE PWB, ROTARY SW
4	636 041 7472	SPRING, ARM
5	636 044 8896	STOPPER, ROTOR
6	645 000 3127	R-SPECIAL, DEW SENSOR
7	636 046 1475	ASSY, ARM V
8	636 041 8837	ROLLER, IMPEDANCE
113	411 146 2108	SCR PAN PCS 2X5
115	411 155 6005	SCR S-TPG PAN PCS 1.4X2.2
116	412 051 5703	SPECIAL SCREW 1.4X3.3
118	412 049 3100	SPECIAL SCREW 1.4X3.5
131	412 046 3202	SPECIAL WASHER 1.2X3X0.3
132	412 046 8207	SPECIAL WASHER 1.0X0.25



LOCATION	PARTS No.	DESCRIPTION	LOCATION	PARTS No.	DESCRIPTION
[MECHANISM 3]					
1	636 044 9589	COMPL, LEVER DRAW	19	636 041 5218	LEVER, SWITCH
2	636 041 7427	SPRING, BACK DRAW	20	636 041 5225	LEVER, TRAY LOCK
3	636 041 7342	SPRING, BACK PINCH	21	636 045 2770	RAIL CAM
4	636 045 9472	COMPL, PINCH ROLLER	22	636 041 7410	SPRING, TRAY LOCK
5	636 042 9444	ASSY, REEL PLATE	23	636 043 3052	MOUNTING BRACKET
6	636 042 9451	ASSY, REEL PLATE	24	636 042 8645	ASSY, LEVER, BRAKE, BT
7	636 043 7753	ASSY, ROLLER GUIDE	25	636 043 0013	ASSY, LEVER, BT
8	636 044 1149	ASSY, MOUNTING, S	26	636 041 7359	SPRING, BT
9	636 041 6512	ASSY, MOUNTING, T	27	636 042 8836	ASSY, LEVER, SOFT
10	636 046 5916	LEVER, BRAKE	28	636 042 7037	SPRING, SOFT BRAKE
OR	636 042 5958	LEVER, BRAKE	112	411 019 4802	SCR PAN PCS 1.4X3
11	636 041 5119	GEAR, BRAKE	114	411 155 5206	SCR S-TPG PAN PCS 1.4X1.6
12	636 045 3135	FLEXIBLE, PWB, MECHANISM	115	411 155 6005	SCR S-TPG PAN PCS 1.4X2.2
13	636 041 0299	HOLDER SENSOR, RIGHT	116	412 051 5703	SPECIAL SCREW 1.4X3.3
14	407 145 3307	PHOTO DIODE, PT4850F	117	411 154 4101	SCR S-TPG PAN PCS 1.4X2
15	645 007 0983	SWITCH, RECOGNITION	121	412 049 3001	SPECIAL SCREW 1.4X3.5
16	408 017 5504	PHOTO COUPLE, NJL5163K-F10	131	412 046 3202	SPECIAL WASHER 1.2X3X0.3
17	636 041 0305	HOLDER SENSOR, LEFT	132	412 046 8207	SPECIAL WASHER 1.0X0.25
18	645 000 0058	SWITCH, LEAF	134	412 046 8306	SPECIAL WASHER 1.2X0.13

N.S.P. : Not available as
service parts.

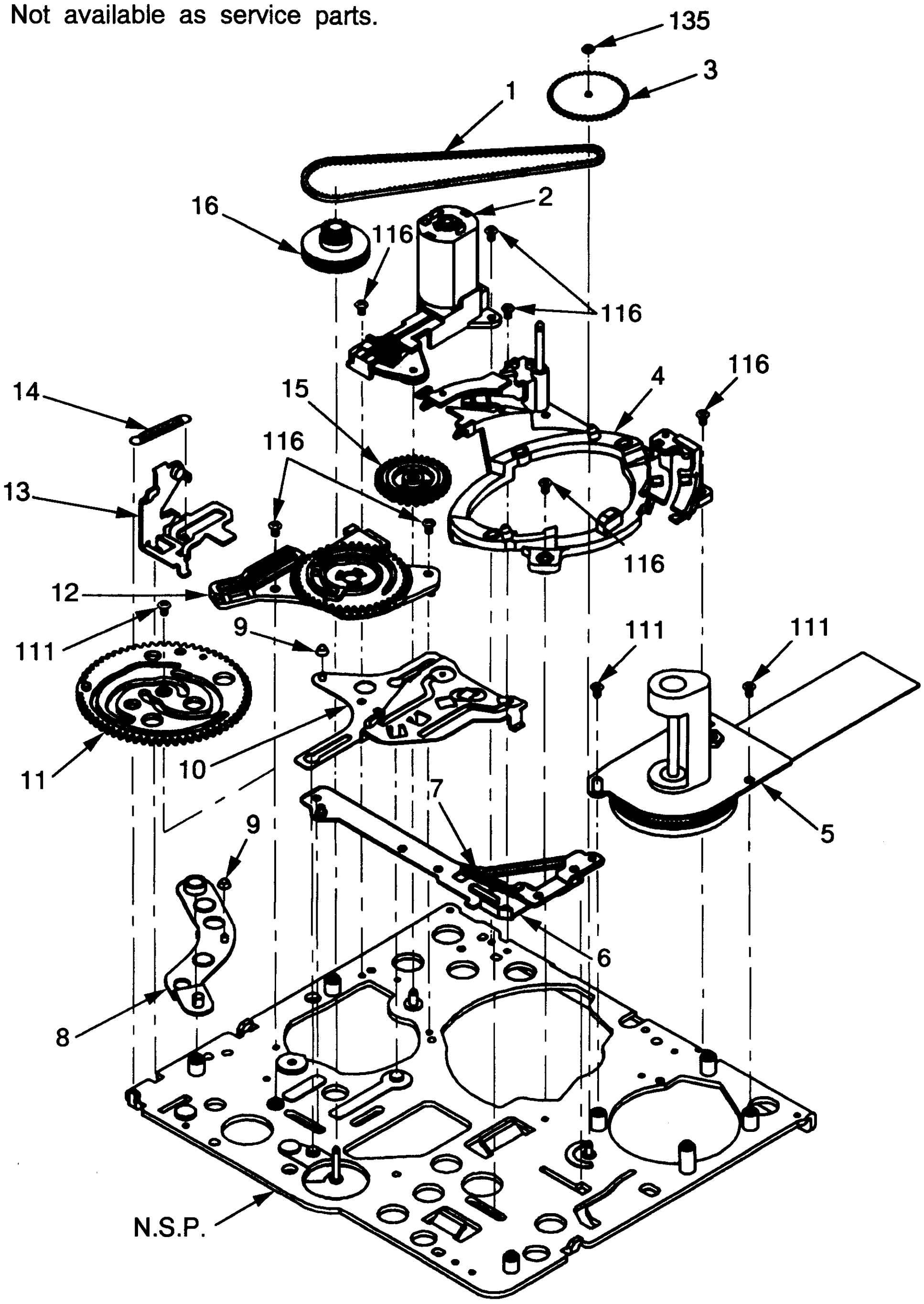


636-045
3876.

[MECHANISM 4]

LOCATION	PARTS No.	DESCRIPTION
1	636 046 5640	BELT, TIMING
2	636 042 0113	ASSY, MOTOR COMPL
3	636 041 5324	PULLEY, CAP
4	636 046 5817	ASSY, CHASSIS, CYLINDER
5	645 002 7130	MOTOR, CAPSTAN DC 0.8W
6	636 044 0098	COMPL, SLIDE, PINCH
7	636 044 0135	SPRING, PINCH PRESS
8	636 042 9574	ARM, SLIDE
9	636 041 7120	ROLLER
10	636 043 3700	COMPL, SLIDE LINK
11	636 043 7579	CAM GEAR
12	645 011 4045	SWITCH, ROTARY
13	636 041 5584	SLIDE, EJECT
14	636 041 7373	SPRING, TENS EJECT
15	636 041 5089	GEAR, CHANGE
16	636 041 5331	PULLEY, IDLER
111	411 099 8509	SCR PAN PCS 1.4X2.5
116	412 051 5703	SPECIAL SCREW 1.4X3.3
135	412 046 3301	SPECIAL WASHER 0.9X3X0.3

N.S.P. : Not available as service parts.



ELECTRICAL PARTS

NOTE;

1. Tolerance of Capacitor (10pF over) and Resistor are noted with follow symbols.
C ------------- ± 0.25%
D ------------- ± 0.5%
G ------------- ± 2%
J ------------- ± 5%
K ------------- ± 10%
M ------------- ± 20%
Z -------------+80%~ − 20%
2. Capacitors
U : µF P : pF
3. Inductors
UH : µH MH : mH

COMPL,PWB,AD-1(VM-EX280P,VM-EX370P ONLY)
COMPL.No. 636 046 6265

(INTEGRATED CIRCUITS)

LOCATION	PARTS No.	DESCRIPTION
IC201	409 308 9102	IC LA7492W-TRM
IC291	409 287 3405	IC LA7471M-TRM

(TRANSISTORS)

LOCATION	PARTS No.	DESCRIPTION
Q2203	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q2204	405 091 4706	TR DTC144WU-T106
Q2205	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q2206	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q2207	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q2208	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q2209	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q2210	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q2211	405 096 4008	TR DTA144TU-T106
Q2212	405 096 4404	TR DTC144TU-T106
OR	405 103 1006	TR UN5210-R-TX
Q2213	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q2221	405 102 6705	TR 2SA1745-7-TL
OR	405 102 8303	TR 2SA1745-6-TL
Q2401	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q2501	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q2962	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q2963	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q2964	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q2980	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX

(FILTERS)

LOCATION	PARTS No.	DESCRIPTION
T2001	636 039 4186	FILTER
T2101	636 038 2121	FILTER

(VARIABLE RESISTORS)

LOCATION	PARTS No.	DESCRIPTION
VR201	645 003 8655	VR,SEMI 10KN
OR	636 039 8467	VR,SEMI 10KB
OR	645 000 0232	VR,SEMI 10KS
OR	636 036 2109	VR,SEMI 10KB
VR211	645 003 8655	VR,SEMI 10KN
OR	636 039 8467	VR,SEMI 10KB
OR	645 000 0232	VR,SEMI 10KS
OR	636 036 2109	VR,SEMI 10KB
VR221	645 003 8655	VR,SEMI 10KN
OR	636 039 8467	VR,SEMI 10KB
OR	645 000 0232	VR,SEMI 10KS
OR	636 036 2109	VR,SEMI 10KB

COMPL,PWB,AD-2(VM-EX220P ONLY)
COMPL.No. 636 046 6012

(MISCELLANEOUS)

LOCATION	PARTS No.	DESCRIPTION
CN294	645 002 9059	JACK,EARPHONE

COMPL,PWB,AD-2(VM-EX280P,VM-EX370P ONLY)
COMPL.No. 636 046 6258

(MISCELLANEOUS)

LOCATION	PARTS No.	DESCRIPTION
CN294	645 002 9073	JACK,EARPHONE

(SWITCH)

LOCATION	PARTS No.	DESCRIPTION
SW291	645 002 1923	SWITCH,SLIDE 1P-2TX1

COMPL,PWB,CA-2
COMPL.No. 636 046 6234

(DIODES)

LOCATION	PARTS No.	DESCRIPTION
D9501	407 113 5609	DIODE DSH015-TL
OR	407 134 7200	DIODE MA141K-TX
D9502	407 113 5609	DIODE DSH015-TL
OR	407 134 7200	DIODE MA141K-TX

(TRANSISTOR)

LOCATION	PARTS No.	DESCRIPTION
Q9501	405 079 6302	TR 2SC4399-5-TL

COMPL,PWB,CP-1(VM-EX220P ONLY)
COMPL.No. 636 046 5978

(MISCELLANEOUSES)

LOCATION	PARTS No.	DESCRIPTION
A3351	645 001 8633	UNIT,REMOCON RECEIVER
CN102	645 008 9619	SOCKET,FPC 19P

(DIODES)

LOCATION	PARTS No.	DESCRIPTION
D1001	407 113 5609	DIODE DSH015-TL
D1301	407 113 0505	DIODE 1SS302-TE85L
D1427	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D3101	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D3102	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D3351	407 161 8904	LED SEL2215R
D3501	407 142 3805	ZENER DIODE MA3082WA-TX
D3503	407 142 3805	ZENER DIODE MA3082WA-TX

(INTEGRATED CIRCUITS)

LOCATION	PARTS No.	DESCRIPTION
IC101	409 355 2309	IC CXA1700AR-T6
IC111	409 344 3409	IC CXL1506N-T4
IC161	409 176 0003	IC CXA1203N-T4
IC191	409 344 3201	IC CXA1704R-T4
IC261	409 272 2505	IC LA7454W-P-TRM
IC321	409 330 0801	IC XLU6000FS-E1
IC323	409 244 2403	IC BA7046F-T1
IC341	409 264 2209	IC S-8420BF-T1
IC351	410 231 6007	IC M37773M4A110HP
IC361	409 303 2108	IC LB1881MMT-T1
OR	409 274 5900	IC LB1881M-T1
IC381	409 326 1607	IC LB1888V-TRM
IC391	409 330 0702	IC MPC1720MR1

LOCATION	PARTS No.	DESCRIPTION
(COILS)		
L0701	645 003 9393	INDUCTOR,100UHJ
L0703	645 003 9393	INDUCTOR,100UHJ
L0704	645 004 2416	INDUCTOR,39UHJ
L0705	645 004 2409	INDUCTOR,33UHJ
L1101	636 003 5379	CORE
L1103	645 003 9935	INDUCTOR,10UHJ
L1104	645 003 9034	INDUCTOR,33UHJ
L1105	645 004 1587	INDUCTOR,4.7UHJ
L1106	645 003 9034	INDUCTOR,33UHJ
L1301	645 003 9058	INDUCTOR,470UHJ
L1303	645 003 9560	INDUCTOR,68UHJ
L1304	645 003 9454	INDUCTOR,150UHJ
L1306	645 003 9386	INDUCTOR,10UHJ
L1307	645 004 2409	INDUCTOR,33UHJ
L1308	645 003 9386	INDUCTOR,10UHJ
L1309	645 004 2409	INDUCTOR,33UHJ
L1310	645 004 1570	INDUCTOR,330UHJ
L1311	645 004 1587	INDUCTOR,4.7UHJ
L1312	645 004 2355	INDUCTOR,180UHJ
L1601	645 003 9386	INDUCTOR,10UHJ
L1801	645 004 2478	INDUCTOR,10UHJ
L1901	645 010 0208	INDUCTOR,220UHK
L3501	645 004 1990	INDUCTOR,47UHK
L3502	645 009 2114	INDUCTOR,2250 OHM
(TRANSISTORS)		
Q0701	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q0702	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0703	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0704	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0705	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0706	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0707	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q0708	405 091 4706	TR DTC144WU-T106
Q0709	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0710	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q0711	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0712	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0713	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0714	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q0717	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0718	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1001	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1002	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1003	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1004	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1006	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1009	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1011	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1012	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1018	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1019	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1101	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1102	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1103	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1104	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1105	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1106	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1107	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1302	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1307	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1309	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1310	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1312	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1313	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1320	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1324	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1404	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1405	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1406	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1407	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1409	405 008 7707	TR 2SB815-B7
OR	405 008 7509	TR 2SB815-B6
Q1412	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106

LOCATION	PARTS No.	DESCRIPTION
Q1412	405 102 5005	TR UN5213-TX
Q1413	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1422	405 102 6705	TR 2SA1745-7-TL
OR	405 102 8303	TR 2SA1745-6-TL
Q1465	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1466	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1601	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1602	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1603	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1604	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1605	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1606	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1801	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1802	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1901	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1903	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1904	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1905	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1906	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1907	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1908	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q2630	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q2631	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q2701	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q2702	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3201	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3301	405 083 0501	TR FMG9-T99
OR	405 120 6602	TR XN1211-TW
Q3351	405 078 4300	TR 2SC4398-TL
OR	405 096 2707	TR DTC114EU-T106
Q3352	405 078 6105	TR 2SA1677-TL
OR	405 096 1205	TR DTA124EU-T106
OR	405 119 1007	TR UN5112-TX
Q3501	405 102 6705	TR 2SA1745-7-TL
OR	405 102 8303	TR 2SA1745-6-TL
Q3502	405 078 6709	TR 2SC4396-TL

LOCATION	PARTS No.	DESCRIPTION
Q3502	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q3503	405 060 7509	TR FMG2-T99
OR	405 120 6701	TR XN1213-TW
Q3504	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q3505	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3506	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3551	405 092 9007	TR 2SK1332-3-TL
Q3571	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3801	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3901	405 047 8109	TR 2SB1202-S-TL
(RESISTOR PACKS)		
RB315	645 001 6981	R-NETWORK,100KX2 0.063W
OR	645 003 6521	R-NETWORK,100KX2 0.063W
RB316	645 001 6981	R-NETWORK,100KX2 0.063W
OR	645 003 6521	R-NETWORK,100KX2 0.063W
RB321	645 001 6868	R-NETWORK,10KX2 0.063W
OR	645 003 6514	R-NETWORK,10KX2 0.063W
RB331	645 001 6981	R-NETWORK,100KX2 0.063W
OR	645 003 6521	R-NETWORK,100KX2 0.063W
RB332	645 001 6868	R-NETWORK,10KX2 0.063W
OR	645 003 6514	R-NETWORK,10KX2 0.063W
RB351	645 001 6981	R-NETWORK,100KX2 0.063W
OR	645 003 6521	R-NETWORK,100KX2 0.063W
RB354	645 001 6981	R-NETWORK,100KX2 0.063W
OR	645 003 6521	R-NETWORK,100KX2 0.063W
RB355	645 001 6981	R-NETWORK,100KX2 0.063W
OR	645 003 6521	R-NETWORK,100KX2 0.063W
RB357	645 001 6981	R-NETWORK,100KX2 0.063W
OR	645 003 6521	R-NETWORK,100KX2 0.063W
RB371	645 001 6868	R-NETWORK,10KX2 0.063W
OR	645 003 6514	R-NETWORK,10KX2 0.063W
(SWITCHES)		
S3101	636 036 0358	SW,PUSH
S3102	636 036 0358	SW,PUSH
S3103	636 040 8456	SW,PUSH
S3104	636 040 8456	SW,PUSH
(FILTER)		
T3201	645 009 3999	FILTER,BE 6.88MHZ
(VARIABLE RESISTORS)		
VR101	645 003 6781	VR,SEMI 47KN
OR	636 039 8634	VR,SEMI 47KB
OR	645 000 0270	VR,SEMI 47KS
OR	636 036 2352	VR,SEMI 47KB
VR102	645 003 6781	VR,SEMI 47KN
OR	636 039 8634	VR,SEMI 47KB
OR	645 000 0270	VR,SEMI 47KS
OR	636 036 2352	VR,SEMI 47KB
VR103	645 003 6781	VR,SEMI 47KN
OR	636 039 8634	VR,SEMI 47KB
OR	645 000 0270	VR,SEMI 47KS
OR	636 036 2352	VR,SEMI 47KB
VR104	645 003 6781	VR,SEMI 47KN
OR	636 039 8634	VR,SEMI 47KB
OR	645 000 0270	VR,SEMI 47KS
OR	636 036 2352	VR,SEMI 47KB
VR108	645 003 6767	VR,SEMI 470N
OR	636 039 8610	VR,SEMI 470B
OR	645 000 0157	VR,SEMI 470S
OR	636 036 2338	VR,SEMI 470B
VR111	645 003 6774	VR,SEMI 4.7KN
OR	636 039 8627	VR,SEMI 4.7KB
OR	645 000 0218	VR,SEMI 4.7KS
OR	636 036 2345	VR,SEMI 4.7KB
VR141	645 002 4672	VR,ROTARY 10KBX2
VR261	645 003 8655	VR,SEMI 10KN
OR	636 039 8467	VR,SEMI 10KB
OR	645 000 0232	VR,SEMI 10KS

LOCATION	PARTS No.	DESCRIPTION
VR261	636 036 2109	VR,SEMI 10KB
VR351	645 003 8662	VR,SEMI 100KN
OR	636 039 8474	VR,SEMI 100KB
OR	645 000 0294	VR,SEMI 100KS
OR	636 036 2116	VR,SEMI 100KB
(CRYSTAL DEVICES)		
X1001	636 040 0931	CRYSTAL 4.433619MHZ
OR	636 028 4340	CRYSTAL 4.433619MHZ
X3501	645 004 8876	OSC,CRYSTAL 17.578125MHZ
OR	645 004 8883	OSC,CRYSTAL 17.578125MHZ
X3502	636 040 1129	OSC,CRYSTAL 32.768KHZ
COMPL,PWB,CP-1(VM-EX280P ONLY)		
COMPL.No.	636 046 5992	906439
(MISCELLANEOUSES)		
A3351	645 001 8633	UNIT,REMOCON RECEIVER
CN102	645 008 9619	SOCKET,FPC 19P
(DIODES)		
D1001	407 113 5609	DIODE DSH015-TL
D1301	407 113 0505	DIODE 1SS302-TE85L
D1427	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D3101	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D3102	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D3351	407 161 8904	LED SEL2215R
D3501	407 142 3805	ZENER DIODE MA3082WA-TX
D3503	407 142 3805	ZENER DIODE MA3082WA-TX
D3751	407 142 3805	ZENER DIODE MA3082WA-TX
(INTEGRATED CIRCUITS)		
IC101	409 355 2309	IC CXA1700AR-T6
IC111	409 344 3409	IC CXL1506N-T4
IC161	409 176 0003	IC CXA1203N-T4
IC191	409 344 3201	IC CXA1704R-T4
IC321	409 330 0801	IC XLU6000FS-E1
IC323	409 244 2403	IC BA7046F-T1
IC341	409 264 2209	IC S-8420BF-T1
IC351	410 231 6007	IC M37773M4A110HP
IC361	409 303 2108	IC LB1881MMT-T1
OR	409 274 5900	IC LB1881M-T1
IC375	409 244 2502	IC TL1596DB-T1
IC381	409 326 1607	IC LB1888V-TRM
IC391	409 330 0702	IC MPC1720MR1
(COILS)		
L0701	645 003 9393	INDUCTOR,100UHJ
L0703	645 003 9393	INDUCTOR,100UHJ
L0704	645 004 2416	INDUCTOR,39UHJ
L0705	645 004 2409	INDUCTOR,33UHJ
L1101	636 003 5379	CORE
L1103	645 003 9935	INDUCTOR,10UHJ
L1104	645 003 9034	INDUCTOR,33UHJ
L1105	645 004 1587	INDUCTOR,4.7UHJ
L1106	645 003 9034	INDUCTOR,33UHJ
L1301	645 003 9058	INDUCTOR,470UHJ
L1303	645 003 9577	INDUCTOR,82UHJ
L1304	645 003 9454	INDUCTOR,150UHJ
L1306	645 003 9386	INDUCTOR,10UHJ
L1307	645 004 2409	INDUCTOR,33UHJ
L1308	645 003 9386	INDUCTOR,10UHJ
L1309	645 004 2409	INDUCTOR,33UHJ
L1310	645 004 1570	INDUCTOR,330UHJ
L1311	645 004 1587	INDUCTOR,4.7UHJ
L1312	645 004 2355	INDUCTOR,180UHJ
L1601	645 003 9386	INDUCTOR,10UHJ
L1801	645 004 2478	INDUCTOR,10UHJ
L1901	645 010 0208	INDUCTOR,220UHK
L3501	645 004 1990	INDUCTOR,47UHK
L3502	645 009 2114	INDUCTOR,2250 OHM
(TRANSISTORS)		
Q0701	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX

LOCATION	PARTS No.	DESCRIPTION
Q0702	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0703	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0704	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0705	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0706	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0707	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q0708	405 091 4706	TR DTC144WU-T106
Q0709	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0710	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q0711	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0712	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0713	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0714	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q0717	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0718	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1001	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1002	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1003	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1004	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1006	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1009	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1011	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1012	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1018	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1019	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1101	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1102	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1103	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX

LOCATION	PARTS No.	DESCRIPTION
Q1104	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1105	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1106	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1107	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1302	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1307	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1309	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1310	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1312	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1313	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1314	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1320	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1324	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1404	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1405	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1406	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1407	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1409	405 008 7707	TR 2SB815-B7
OR	405 008 7509	TR 2SB815-B6
Q1412	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1413	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1417	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1418	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1422	405 102 6705	TR 2SA1745-7-TL
OR	405 102 8303	TR 2SA1745-6-TL
Q1465	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1466	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1601	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1602	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1603	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1604	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1605	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1606	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1801	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1802	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1901	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1903	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1904	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1905	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1906	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1907	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1908	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q3201	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3301	405 083 0501	TR FMG9-T99
OR	405 120 6602	TR XN1211-TW
Q3351	405 078 4300	TR 2SC4398-TL
OR	405 096 2707	TR DTC114EU-T106
Q3352	405 078 6105	TR 2SA1677-TL
OR	405 096 1205	TR DTA124EU-T106
OR	405 119 1007	TR UN5112-TX
Q3501	405 102 6705	TR 2SA1745-7-TL
OR	405 102 8303	TR 2SA1745-6-TL
Q3502	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q3503	405 060 7509	TR FMG2-T99
OR	405 120 6701	TR XN1213-TW
Q3504	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q3505	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3506	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3551	405 092 9007	TR 2SK1332-3-TL
Q3571	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3751	405 083 0501	TR FMG9-T99
OR	405 120 6602	TR XN1211-TW
Q3801	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3901	405 047 8109	TR 2SB1202-S-TL
(RESISTOR PACKS)		
RB315	645 001 6981	R-NETWORK,100KX2 0.063W
OR	645 003 6521	R-NETWORK,100KX2 0.063W
RB316	645 001 6981	R-NETWORK,100KX2 0.063W
OR	645 003 6521	R-NETWORK,100KX2 0.063W
RB321	645 001 6868	R-NETWORK,10KX2 0.063W
OR	645 003 6514	R-NETWORK,10KX2 0.063W
RB331	645 001 6981	R-NETWORK,100KX2 0.063W
OR	645 003 6521	R-NETWORK,100KX2 0.063W

LOCATION	PARTS No.	DESCRIPTION
RB332	645 001 6868	R-NETWORK,10KX2 0.063W
OR	645 003 6514	R-NETWORK,10KX2 0.063W
RB351	645 001 6981	R-NETWORK,100KX2 0.063W
OR	645 003 6521	R-NETWORK,100KX2 0.063W
RB354	645 001 6981	R-NETWORK,100KX2 0.063W
OR	645 003 6521	R-NETWORK,100KX2 0.063W
RB355	645 001 6981	R-NETWORK,100KX2 0.063W
OR	645 003 6521	R-NETWORK,100KX2 0.063W
RB357	645 001 6981	R-NETWORK,100KX2 0.063W
OR	645 003 6521	R-NETWORK,100KX2 0.063W
RB371	645 001 6868	R-NETWORK,10KX2 0.063W
OR	645 003 6514	R-NETWORK,10KX2 0.063W
(SWITCHES)		
S3101	636 036 0358	SW,PUSH
S3102	636 036 0358	SW,PUSH
S3103	636 040 8456	SW,PUSH
S3104	636 040 8456	SW,PUSH
(FILTER)		
T3201	645 009 3999	FILTER,BE 6.88MHZ
(VARIABLE RESISTORS)		
VR101	645 003 6781	VR,SEMI 47KN
OR	636 039 8634	VR,SEMI 47KB
OR	645 000 0270	VR,SEMI 47KS
OR	636 036 2352	VR,SEMI 47KB
VR102	645 003 6781	VR,SEMI 47KN
OR	636 039 8634	VR,SEMI 47KB
OR	645 000 0270	VR,SEMI 47KS
OR	636 036 2352	VR,SEMI 47KB
VR103	645 003 6781	VR,SEMI 47KN
OR	636 039 8634	VR,SEMI 47KB
OR	645 000 0270	VR,SEMI 47KS
OR	636 036 2352	VR,SEMI 47KB
VR104	645 003 6781	VR,SEMI 47KN
OR	636 039 8634	VR,SEMI 47KB
OR	645 000 0270	VR,SEMI 47KS
OR	636 036 2352	VR,SEMI 47KB
VR108	645 003 6767	VR,SEMI 470N
OR	636 039 8610	VR,SEMI 470B
OR	645 000 0157	VR,SEMI 470S
OR	636 036 2338	VR,SEMI 470B
VR111	645 003 6774	VR,SEMI 4.7KN
OR	636 039 8627	VR,SEMI 4.7KB
OR	645 000 0218	VR,SEMI 4.7KS
OR	636 036 2345	VR,SEMI 4.7KB
VR141	645 002 4672	VR,ROTARY 10KBX2
VR351	645 003 8662	VR,SEMI 100KN
OR	636 039 8474	VR,SEMI 100KB
OR	645 000 0294	VR,SEMI 100KS
OR	636 036 2116	VR,SEMI 100KB
(CRYSTAL DEVICES)		
X1001	636 040 0931	CRYSTAL 4.433619MHZ
OR	636 028 4340	CRYSTAL 4.433619MHZ
X3501	645 004 8876	OSC,CRYSTAL 17.578125MHZ
OR	645 004 8883	OSC,CRYSTAL 17.578125MHZ
X3502	636 040 1129	OSC,CRYSTAL 32.768KHZ
COMPL,PWB,CP-1(VM-EX370P ONLY)		
COMPL.No. 636 046 6975		
(MISCELLANEOUSES)		
A3351	645 001 8633	UNIT,REMOCON RECEIVER
CN102	645 008 9619	SOCKET,FPC 19P
(DIODES)		
D1001	407 113 5609	DIODE DSH015-TL
D1301	407 113 0505	DIODE 1SS302-TE85L
D1427	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D3101	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D3102	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D3351	407 161 8904	LED SEL2215R
D3501	407 142 3805	ZENER DIODE MA3082WA-TX
D3503	407 142 3805	ZENER DIODE MA3082WA-TX

LOCATION	PARTS No.	DESCRIPTION
D3751	407 142 3805	ZENER DIODE MA3082WA-TX
(INTEGRATED CIRCUITS)		
IC101	409 355 2309	IC CXA1700AR-T6
IC111	409 344 3409	IC CXL1506N-T4
IC161	409 176 0003	IC CXA1203N-T4
IC191	409 344 3201	IC CXA1704R-T4
IC321	409 330 0801	IC XLU6000FS-E1
IC323	409 244 2403	IC BA7046F-T1
IC341	409 264 2209	IC S-8420BF-T1
IC351	410 231 6007	IC M37773M4A110HP
IC358	409 018 4008	IC LA6393MT1
OR	409 168 2503	IC BA10393F-T1
IC361	409 303 2108	IC LB1881MMT-T1
OR	409 274 5900	IC LB1881M-T1
IC375	409 244 2502	IC TL1596DB-T1
IC381	409 326 1607	IC LB1888V-TRM
IC391	409 330 0702	IC MPC1720MR1
(COILS)		
L0701	645 003 9393	INDUCTOR,100UHJ
L0703	645 003 9393	INDUCTOR,100UHJ
L0704	645 004 2416	INDUCTOR,39UHJ
L0705	645 004 2409	INDUCTOR,33UHJ
L1101	636 003 5379	CORE
L1103	645 003 9935	INDUCTOR,10UHJ
L1104	645 003 9034	INDUCTOR,33UHJ
L1105	645 004 1587	INDUCTOR,4.7UHJ
L1106	645 003 9034	INDUCTOR,33UHJ
L1301	645 003 9058	INDUCTOR,470UHJ
L1303	645 003 9577	INDUCTOR,82UHJ
L1304	645 003 9454	INDUCTOR,150UHJ
L1306	645 003 9386	INDUCTOR,10UHJ
L1307	645 004 2409	INDUCTOR,33UHJ
L1308	645 003 9386	INDUCTOR,10UHJ
L1309	645 004 2409	INDUCTOR,33UHJ
L1310	645 004 1570	INDUCTOR,330UHJ
L1311	645 004 1587	INDUCTOR,4.7UHJ
L1312	645 004 2355	INDUCTOR,180UHJ
L1601	645 003 9386	INDUCTOR,10UHJ
L1801	645 004 2478	INDUCTOR,10UHJ
L1901	645 010 0208	INDUCTOR,220UHK
L3501	645 004 1990	INDUCTOR,47UHK
L3502	645 009 2114	INDUCTOR,2250 OHM
(TRANSISTORS)		
Q0701	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q0702	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0703	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0704	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0705	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0706	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0707	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q0708	405 091 4706	TR DTC144WU-T106
Q0709	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0710	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q0711	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0712	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0713	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106

LOCATION	PARTS No.	DESCRIPTION
Q0713	405 102 5609	TR 2SD1819A-R-TX
Q0714	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q0717	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0718	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1001	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1002	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1003	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1004	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1006	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1009	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1011	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1012	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1018	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1019	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1101	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1102	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1103	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1104	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1105	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1106	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1107	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1302	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1307	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1309	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1310	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1312	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1313	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1314	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1320	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1324	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1404	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1405	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1406	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1407	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1409	405 008 7707	TR 2SB815-B7
OR	405 008 7509	TR 2SB815-B6
Q1412	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1413	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1417	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1418	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1422	405 102 6705	TR 2SA1745-7-TL
OR	405 102 8303	TR 2SA1745-6-TL
Q1465	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1466	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1601	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1602	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1603	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1604	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1605	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1606	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1801	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1802	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1901	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1903	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1904	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1905	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1906	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1907	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX

LOCATION	PARTS No.	DESCRIPTION
Q1908	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q3201	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3301	405 083 0501	TR FMG9-T99
OR	405 120 6602	TR XN1211-TW
Q3351	405 078 4300	TR 2SC4398-TL
OR	405 096 2707	TR DTC114EU-T106
Q3352	405 078 6105	TR 2SA1677-TL
OR	405 096 1205	TR DTA124EU-T106
OR	405 119 1007	TR UN5112-TX
Q3501	405 102 6705	TR 2SA1745-7-TL
OR	405 102 8303	TR 2SA1745-6-TL
Q3502	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q3503	405 060 7509	TR FMG2-T99
OR	405 120 6701	TR XN1213-TW
Q3504	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q3505	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3506	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3551	405 092 9007	TR 2SK1332-3-TL
Q3571	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3581	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3582	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q3583	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3751	405 083 0501	TR FMG9-T99
OR	405 120 6602	TR XN1211-TW
Q3801	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3901	405 047 8109	TR 2SB1202-S-TL
(RESISTOR PACKS)		
RB315	645 001 6981	R-NETWORK,100KX2 0.063W
OR	645 003 6521	R-NETWORK,100KX2 0.063W
RB316	645 001 6981	R-NETWORK,100KX2 0.063W
OR	645 003 6521	R-NETWORK,100KX2 0.063W
RB321	645 001 6868	R-NETWORK,10KX2 0.063W
OR	645 003 6514	R-NETWORK,10KX2 0.063W
RB331	645 001 6981	R-NETWORK,100KX2 0.063W
OR	645 003 6521	R-NETWORK,100KX2 0.063W
RB332	645 001 6868	R-NETWORK,10KX2 0.063W
OR	645 003 6514	R-NETWORK,10KX2 0.063W
RB351	645 001 6981	R-NETWORK,100KX2 0.063W
OR	645 003 6521	R-NETWORK,100KX2 0.063W
RB354	645 001 6981	R-NETWORK,100KX2 0.063W
OR	645 003 6521	R-NETWORK,100KX2 0.063W
RB355	645 001 6981	R-NETWORK,100KX2 0.063W
OR	645 003 6521	R-NETWORK,100KX2 0.063W
RB357	645 001 6981	R-NETWORK,100KX2 0.063W
OR	645 003 6521	R-NETWORK,100KX2 0.063W
RB371	645 001 6868	R-NETWORK,10KX2 0.063W
OR	645 003 6514	R-NETWORK,10KX2 0.063W
(SWITCHES)		
S3101	636 036 0358	SW,PUSH
S3102	636 036 0358	SW,PUSH
S3103	636 040 8456	SW,PUSH
S3104	636 040 8456	SW,PUSH
(FILTER)		
T3201	645 009 3999	FILTER,BE 6.88MHZ
(VARIABLE RESISTORS)		
VR101	645 003 6781	VR,SEMI 47KN

LOCATION	PARTS No.	DESCRIPTION
VR101	636 039 8634	VR,SEMI 47KB
OR	645 000 0270	VR,SEMI 47KS
OR	636 036 2352	VR,SEMI 47KB
VR102	645 003 6781	VR,SEMI 47KN
OR	636 039 8634	VR,SEMI 47KB
OR	645 000 0270	VR,SEMI 47KS
OR	636 036 2352	VR,SEMI 47KB
VR103	645 003 6781	VR,SEMI 47KN
OR	636 039 8634	VR,SEMI 47KB
OR	645 000 0270	VR,SEMI 47KS
OR	636 036 2352	VR,SEMI 47KB
VR104	645 003 6781	VR,SEMI 47KN
OR	636 039 8634	VR,SEMI 47KB
OR	645 000 0270	VR,SEMI 47KS
OR	636 036 2352	VR,SEMI 47KB
VR108	645 003 6767	VR,SEMI 470N
OR	636 039 8610	VR,SEMI 470B
OR	645 000 0157	VR,SEMI 470S
OR	636 036 2338	VR,SEMI 470B
VR111	645 003 6774	VR,SEMI 4.7KN
OR	636 039 8627	VR,SEMI 4.7KB
OR	645 000 0218	VR,SEMI 4.7KS
OR	636 036 2345	VR,SEMI 4.7KB
VR141	645 002 4672	VR,ROTARY 10KBX2
VR351	645 003 8662	VR,SEMI 100KN
OR	636 039 8474	VR,SEMI 100KB
OR	645 000 0294	VR,SEMI 100KS
OR	636 036 2116	VR,SEMI 100KB
(CRYSTAL DEVICES)		
X1001	636 040 0931	CRYSTAL 4.433619MHZ
OR	636 028 4340	CRYSTAL 4.433619MHZ
X3501	645 004 8876	OSC,CRYSTAL 17.578125MHZ
OR	645 004 8883	OSC,CRYSTAL 17.578125MHZ
X3502	636 040 1129	OSC,CRYSTAL 32.768KHZ

COMPL,PWB,CP-2
COMPL.No. 636 046 6227**(VM-EX220P ONLY)**
COMPL.No. 636 047 0644**(VM-EX280P,VM-EX370P ONLY)**

LOCATION	PARTS No.	DESCRIPTION
(MISCELLANEOUS)		
CN931	645 008 9985	SOCKET,FPC 26P
(TRIMMERS)		
CT901	645 005 0404	TRIMMER,20PF
CT902	645 005 0411	TRIMMER,30PF
(DIODES)		
D9001	407 130 2605	DIODE MA143A-TX
D9021	407 134 7309	DIODE MA141WA-TX
D9101	407 113 5609	DIODE DSH015-TL
OR	407 134 7200	DIODE MA141K-TX
D9301	407 113 5609	DIODE DSH015-TL
OR	407 134 7200	DIODE MA141K-TX
D9353	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D9354	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D9355	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
(INTEGRATED CIRCUITS)		
IC911	409 245 4208	IC MSM6524GS-VKR2
IC912	409 223 9508	IC CXA1392R-T4
IC913	409 307 6102	IC CXL1518N-T4
IC914	409 223 9409	IC CXA1391R-T6
IC915	409 183 2007	IC CXD1159Q-T4
IC916	409 275 6906	IC CXD1257AR-T6
IC917	409 281 5306	IC CXA1390AR-T4
IC918	409 330 6001	IC CXD1267N-T4
IC931	409 340 6404	IC LC98000A-V09
IC932	410 232 7706	IC MB89677A-115
IC933	409 307 5600	IC MPC17A85VM-EL
OR	409 359 8901	IC MPC17A85ZVM-EL
IC934	409 184 8008	IC SC14S71FEL
OR	409 155 7306	IC TC4S71F(TE85L)
IC935	409 074 1904	IC NJM3414M-T1
IC936	409 142 2000	IC LA6358NM-T1
IC937	409 354 0504	IC MM1107AFF

LOCATION	PARTS No.	DESCRIPTION
(COILS)		
L9021	645 004 2492	INDUCTOR,12UHJ
OR	645 003 9423	INDUCTOR,12UHJ
OR	645 003 9010	INDUCTOR,12UHJ
L9190	645 003 9034	INDUCTOR,33UHJ
L9191	645 009 1155	INDUCTOR,68UHJ
L9192	645 003 9034	INDUCTOR,33UHJ
L9301	645 003 9584	INDUCTOR,10UHK
L9302	645 003 9614	INDUCTOR,22UHK
L9303	645 003 9621	INDUCTOR,330UHK
L9304	645 003 9614	INDUCTOR,22UHK
L9305	645 003 9607	INDUCTOR,18UHK
(TRANSISTORS)		
Q9021	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q9022	405 079 2809	TR IMX1-T109
OR	405 107 1101	TR XN4501-(TW)
Q9023	405 102 5500	TR 2SB1218A-R-TX
Q9024	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q9165	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q9166	405 102 5500	TR 2SB1218A-R-TX
Q9190	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q9301	405 087 9500	TR FC101-TL
Q9302	405 107 1101	TR XN4501-(TW)
OR	405 079 2809	TR IMX1-T109
Q9304	405 107 1101	TR XN4501-(TW)
OR	405 079 2809	TR IMX1-T109
Q9305	405 107 1101	TR XN4501-(TW)
OR	405 079 2809	TR IMX1-T109
Q9306	405 107 1101	TR XN4501-(TW)
OR	405 079 2809	TR IMX1-T109
Q9311	405 100 3102	TR FC122-TL
Q9315	405 123 3707	TR DTC115EU-T106
Q9320	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q9322	405 107 1101	TR XN4501-(TW)
OR	405 079 2809	TR IMX1-T109
Q9331	405 107 1101	TR XN4501-(TW)
OR	405 079 2809	TR IMX1-T109
Q9332	405 107 1101	TR XN4501-(TW)
OR	405 079 2809	TR IMX1-T109
Q9440	405 006 8904	TR 2SB1121-T-TD
Q9441	405 089 5807	TR FC106-TL
Q9442	405 089 5807	TR FC106-TL
Q9443	405 123 3707	TR DTC115EU-T106
(RESISTOR PACKS)		
RB901	645 001 3386	R-NETWORK,470X4 0.063W
RB902	645 001 6707	R-NETWORK,470X2 0.063W
RB903	645 001 3195	R-NETWORK,10KX4 0.063W
RB904	645 001 6868	R-NETWORK,10KX2 0.063W
OR	645 003 6514	R-NETWORK,10KX2 0.063W
(SWITCHES)		
S9001	636 036 0358	SW,PUSH
S9002	636 036 0358	SW,PUSH
S9003	636 036 0358	SW,PUSH
S9004	636 036 0358	SW,PUSH
S9005	636 040 8456	SW,PUSH
(FILTER)		
T9020	636 031 3187	FILTER 4MHZ
(VARACTOR DIODE)		
VC902	407 099 2906	VARACTOR DI 1SV200-11TLC
(VARIABLE RESISTORS)		
VR931	645 003 7573	VR,SEMI 220KN
VR932	645 003 8662	VR,SEMI 100KN
(CRYSTAL DEVICES)		
X9130	636 036 6862	CRYSTAL,17MHZ
X9150	636 040 4137	CRYSTAL,28.375MHZ

COMPL,PWB,PW-1

COMPL.No. 636 046 5107**(VM-EX220P ONLY)**

COMPL.No. 636 046 5947**(VM-EX280P,VM-EX370P ONLY)**

LOCATION	PARTS No.	DESCRIPTION
(MISCELLANEOUSES)		
CN304	636 039 9358	PLATE SPRING,BATTERY
CN305	636 039 9358	PLATE SPRING,BATTERY
CN306	636 040 0986	JACK,DC
CN307	636 035 3541	JACK,LANC**(VM-EX280P,VM-EX370P ONLY)**
(DIODES)		
D3001	407 108 3702	DIODE DCF010-TL
D3002	407 108 3702	DIODE DCF010-TL
D3003	407 092 9506	DIODE SB07-03C
D3004	407 160 8301	DIODE SB10-015C
D3005	407 004 0706	DIODE DCB015
D3006	407 004 0706	DIODE DCB015
D3007	407 056 6909	ZENER DIODE RD4.7MB2
D3008	407 056 5605	ZENER DIODE RD4.3MB2
(FUSE)		
F3001 ⚠	636 040 8463	PROTECTOR, 3.0A, 125V
(INTEGRATED CIRCUIT)		
IC301	409 348 4402	IC MB3778PFV-G-BND-EF
(COILS)		
L3001	645 009 4514	INDUCTOR,AIR 10UH
L3002	645 009 4033	INDUCTOR,47UH
L3003	645 009 4521	INDUCTOR,AIR 18UH
L3004	645 009 4538	INDUCTOR,AIR 33UH
L3005	645 009 4538	INDUCTOR,AIR 33UH
L3006	645 009 4538	INDUCTOR,AIR 33UH
L3007	645 007 7319	INDUCTOR,47UHK
L3008	645 007 7319	INDUCTOR,47UHK
L3009	645 009 4521	INDUCTOR,AIR 18UH
L3010	645 009 4057	INDUCTOR,200UH
L3011	645 009 4057	INDUCTOR,200UH
L3012	636 003 3610	HF CHOKE,1MHK
(TRANSISTORS)		
Q3001	405 124 5502	TR FP106-TL
Q3002	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3003	405 091 4706	TR DTC144WU-T106
Q3004	405 078 4300	TR 2SC4398-TL
OR	405 096 2707	TR DTC114EU-T106
Q3005	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q3006	405 061 6600	TR 2SB1302-S-TD
Q3007	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3008	405 110 3406	TR FP101-TL
Q3009	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3010	405 087 9708	TR FC104-TL
Q3011	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3012	405 110 3406	TR FP101-TL
(SWITCHES)		
S3001	645 000 1390	SWITCH,SLIDE 1P-2TX1
S3002	636 025 0543	SW,PUSH
S3003	645 000 1406	SWITCH,SLIDE 1P-3TX1
(TRANS)		
T3001	645 009 4002	TRANS,POWER,PULSE
(VARIABLE RESISTORS)		
VR301	645 003 8648	VR,SEMI 1KN
OR	636 039 8450	VR,SEMI 1KB
OR	645 000 0171	VR,SEMI 1KS
OR	636 036 2093	VR,SEMI 1KB
VR302	645 003 6743	VR,SEMI 2.2KN
OR	636 039 8542	VR,SEMI 2.2KB
OR	645 000 0195	VR,SEMI 2.2KS
OR	636 036 2222	VR,SEMI 2.2KB

LOCATION	PARTS No.	DESCRIPTION
VR303	645 003 6743	VR,SEMI 2.2KN
OR	636 039 8542	VR,SEMI 2.2KB
OR	645 000 0195	VR,SEMI 2.2KS
OR	636 036 2222	VR,SEMI 2.2KB
COMPL,PWB,TB-2(VM-EX220P ONLY)		
COMPL.No.	636 044 8636	
(MISCELLANEOUS)		
CN851	645 002 4719	JACK,RCA-2
COMPL,PWB,TB-2(VM-EX280P,VM-EX370P ONLY)		
COMPL.No.	636 046 7095	
(MISCELLANEOUS)		
CN851	645 002 4726	JACK,RCA-3
COMPL,PWB,VF-1(VM-EX220P,VM-EX280P ONLY)		
COMPL.No.	636 045 6235	
(CAPACITORS)		
C9714 ⚠	403 076 9302	CERAMIC 2200P Z 1K
C9715 ⚠	403 175 2600	CERAMIC 1000P Z 1K
(DIODES)		
D9701	407 069 4909	DIODE DSB010
D9702	407 066 8207	DIODE SB02-09CP
(INTEGRATED CIRCUIT)		
IC971	409 283 7100	IC BA7149F-T1
(COILS)		
L9701	613 015 3623	COIL,INDUCTOR 100UHK
L9702	636 040 2850	COIL,LINEARITY
(TRANSISTORS)		
Q9701	405 115 9007	TR 2SD1616-U
Q9702	405 043 8905	TR 2SA1257-G5
(TRANS)		
T9701 ⚠	636 040 2836	TRANS,FLYBACK
(VARIABLE RESISTORS)		
VR971	645 002 4849	VR,SEMI 50KN
VR972	645 002 4832	VR,SEMI 200N
VR974	645 003 5487	VR,SEMI 5.6MS
VR975	645 003 5760	VR,SEMI 2.2MS
COMPL,PWB,VF-1(VM-EX370P ONLY)		
COMPL.No.	636 045 9953	
(MISCELLANEOUS)		
A9701 ⚠	645 005 0374	UNIT, DC/DC CONVERTOR

LOCATION	PARTS No.	DESCRIPTION
(DIODE)		
D9751	407 166 0606	DIODE MA365-(TX)
(INTEGRATED CIRCUITS)		
IC971	409 331 3009	IC CXA1785R-T4
IC972	409 331 3108	IC CXD2403R-T4
(COILS)		
L9701	645 004 2454	INDUCTOR,82UHJ
L9751	645 004 2379	INDUCTOR,22UHJ
L9752	645 004 2379	INDUCTOR,22UHJ
L9753	645 004 2379	INDUCTOR,22UHJ
L9754	645 004 2379	INDUCTOR,22UHJ
L9755	645 004 1600	INDUCTOR,8.2UHJ
(TRANSISTORS)		
Q9701	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q9751	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q9752	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q9753	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
(TRANS)		
T9701	645 005 6031	FILTER, BP 4.43MHZ
(VARIABLE RESISTORS)		
VR971	645 002 6867	VR,SEMI 22KS
VR976	645 003 6606	VR,SEMI 47KS
VR977	645 002 6867	VR,SEMI 22KS
VR978	645 003 7566	VR,SEMI 220N
VR979	645 003 7566	VR,SEMI 220N
VR980	645 003 6606	VR,SEMI 47KS
VR982	645 003 6606	VR,SEMI 47KS
VR983	645 003 6606	VR,SEMI 47KS
(CRYSTAL DEVICE)		
X9701	636 040 0924	CRYSTAL,4.433619MHZ

ELECTRICAL PARTS (The general parts)

COMPL,PWB,AD-1
COMPL.No. 636 046 6265
(VM-EX280P,VM-EX370P ONLY)

(CAPACITORS)

LOCATION	PARTS No.	DESCRIPTION	
C2001	403 285 3108	M	4V
OR	403 089 6206	M	4V
C2003	403 285 3108	M	4V
OR	403 089 6206	M	4V
C2004	403 285 4303	M	16V
OR	403 091 0407	M	16V
C2005	403 285 3306	M	4V
OR	403 276 7108	M	4V
C2006	403 285 3108	M	4V
OR	403 089 6206	M	4V
C2007	403 113 4109	K	50V
OR	403 224 5804	K	50V
C2008	403 285 3108	M	4V
OR	403 089 6206	M	4V
C2010	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C2011	403 130 3604	K	25V
OR	403 150 5008	K	25V
C2012	403 073 1200	K	50V
OR	403 220 5600	K	50V
OR	403 153 4008	K	50V
C2013	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C2101	403 285 3108	M	4V
OR	403 089 6206	M	4V
C2103	403 285 3108	M	4V
OR	403 089 6206	M	4V
C2104	403 285 4303	M	16V
OR	403 091 0407	M	16V
C2105	403 285 3306	M	4V
OR	403 276 7108	M	4V
C2106	403 285 3108	M	4V
OR	403 089 6206	M	4V
C2107	403 113 4109	K	50V
OR	403 224 5804	K	50V
C2108	403 285 3108	M	4V
OR	403 089 6206	M	4V
C2110	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C2111	403 130 3604	K	25V
OR	403 150 5008	K	25V
C2112	403 073 1200	K	50V
OR	403 220 5600	K	50V
OR	403 153 4008	K	50V
C2113	403 285 4907	M	25V
OR	403 091 8809	M	25V
C2201	403 162 3900	M	4V
OR	403 279 0205	M	4V
C2202	403 285 3306	M	4V
OR	403 276 7108	M	4V
C2203	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C2204	403 285 3603	M	6.3V
OR	403 275 7406	M	6.3V
C2205	403 285 3702	M	6.3V
OR	403 279 9000	M	6.3V
C2206	403 285 3603	M	6.3V
OR	403 275 7406	M	6.3V
C2207	403 285 3108	M	4V
OR	403 089 6206	M	4V
C2401	403 285 4303	M	16V
OR	403 091 0407	M	16V
C2501	403 285 4303	M	16V
OR	403 091 0407	M	16V
C2901	403 192 5905	K	25V
C2902	403 192 5905	K	25V
C2903	403 073 1200	K	50V
OR	403 220 5600	K	50V
OR	403 153 4008	K	50V
C2904	403 130 3604	K	25V
OR	403 150 5008	K	25V
C2905	403 215 2805	K	25V
OR	403 235 6005	K	25V
C2906	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C2907	403 071 3503	K	50V
OR	403 116 7701	K	50V
OR	403 108 8105	K	50V
C2908	403 140 9603	K	25V
OR	403 192 8708	K	25V
C2909	403 140 9603	K	25V
OR	403 192 8708	K	25V
C2910	403 215 1006	J	50V
OR	403 235 1406	J	50V
OR	403 228 7804	J	50V
C2911	403 285 4303	M	16V
OR	403 091 0407	M	16V
C2912	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C2913	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C2914	403 215 2904	K	25V
OR	403 281 3102	M	25V
C2951	403 192 5905	K	25V
C2952	403 192 5905	K	25V
C2953	403 073 1200	K	50V
OR	403 220 5600	K	50V
OR	403 153 4008	K	50V
C2954	403 130 3604	K	25V
OR	403 150 5008	K	25V
C2955	403 215 2805	K	25V
OR	403 235 6005	K	25V
C2956	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C2957	403 071 3503	K	50V
OR	403 116 7701	K	50V
OR	403 108 8105	K	50V
C2958	403 140 9603	K	25V
OR	403 192 8708	K	25V
C2959	403 140 9603	K	25V
OR	403 192 8708	K	25V
C2960	403 215 1006	J	50V
OR	403 235 1406	J	50V
OR	403 228 7804	J	50V
C2961	403 285 4303	M	16V
OR	403 091 0407	M	16V
C2962	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C2963	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C2964	403 215 2904	K	25V
OR	403 281 3102	M	25V
C2965	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C2966	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C2967	403 215 2904	K	25V
OR	403 281 3102	M	25V
C2980	403 215 2904	K	25V
OR	403 281 3102	M	25V
C2981	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C2982	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C2983	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C2984	403 285 3900	M	10V
OR	403 114 5402	M	10V
C2985	403 285 3306	M	4V
OR	403 276 7108	M	4V
C2986	403 113 3805	K	50V
OR	403 224 5705	K	50V
C2988	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V

(RESISTORS)

LOCATION	PARTS No.	DESCRIPTION	
R2002	401 105 0603	JA	1/16W
R2003	401 105 4205	JA	1/16W
R2004	401 114 0106	JA	1/16W
R2005	401 166 9706	DU	1/16W
R2006	401 105 0504	JA	1/16W
R2007	401 105 0504	JA	1/16W
R2102	401 105 0603	JA	1/16W
R2103	401 105 4205	JA	1/16W
R2104	401 114 0106	JA	1/16W
R2105	401 166 9706	DU	1/16W
R2106	401 105 0504	JA	1/16W
R2107	401 105 0504	JA	1/16W
R2201	401 105 3406	JA	1/16W
R2202	401 105 5400	JA	1/16W
R2204	401 166 9706	DU	1/16W
R2208	401 105 0603	JA	1/16W
R2209	401 105 0603	JA	1/16W
R2210	401 105 0504	JA	1/16W
R2211	401 105 0603	JA	1/16W
R2212	401 105 0603	JA	1/16W
R2213	401 105 0603	JA	1/16W
R2221	401 166 3100	DU	1/16W
R2222	401 105 0603	JA	1/16W
R2251	401 105 7909	ZA	1/16W
R2401	401 105 0504	JA	1/16W
R2402	401 105 0504	JA	1/16W
R2408	401 105 0702	JA	1/16W
R2501	401 105 0504	JA	1/16W
R2502	401 105 0504	JA	1/16W
R2508	401 105 0702	JA	1/16W
R2902	401 105 6605	JA	1/16W
R2903	401 105 5301	JA	1/16W
R2904	401 105 0603	JA	1/16W
R2905	401 105 7404	JA	1/16W
R2906	401 105 1105	JA	1/16W
R2907	401 105 7404	JA	1/16W
R2908	401 105 4700	JA	1/16W
R2909	401 105 4205	JA	1/16W
R2912	401 105 6605	JA	1/16W
R2913	401 105 6605	JA	1/16W
R2914	401 105 4106	JA	1/16W
R2915	401 105 4502	JA	1/16W
R2916	401 105 4106	JA	1/16W
R2952	401 105 6605	JA	1/16W
R2953	401 105 5301	JA	1/16W
R2954	401 105 0603	JA	1/16W
R2955	401 105 7404	JA	1/16W
R2956	401 105 1105	JA	1/16W
R2957	401 105 7404	JA	1/16W
R2958	401 105 4700	JA	1/16W
R2959	401 105 4205	JA	1/16W
R2962	401 105 6605	JA	1/16W
R2963	401 105 6605	JA	1/16W
R2964	401 105 4106	JA	1/16W
R2965	401 105 4502	JA	1/16W
R2966	401 105 4106	JA	1/16W
R2967	401 105 1105	JA	1/16W
R2968	401 105 1105	JA	1/16W
R2969	401 105 6605	JA	1/16W
R2970	401 105 3208	JA	1/16W
R2971	401 105 4106	JA	1/16W
R2980	401 105 0504	JA	1/16W
R2981	401 105 3406	JA	1/16W
R2982	401 105 1709	JA	1/16W
R2983	401 105 1709	JA	1/16W
R2984	401 105 1709	JA	1/16W
R2986	401 105 7909	ZA	1/16W
R2988	401 105 3000	JA	1/16W

COMPL,PWB,AD-2(VM-EX220P ONLY)
COMPL.No. 636 046 6012

(CAPACITORS)

LOCATION	PARTS No.	DESCRIPTION	
C2931	403 130 3802	K	25V
OR	403 221 3100	K	25V
C2936	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C2937	403 067 9809	K	25V
OR	403 159 1209	K	25V

(RESISTORS)

LOCATION	PARTS No.	DESCRIPTION	
R2933	401 105 1006	JA	1/16W
R2934	401 105 0504	JA	1/16W
R2940	401 105 0504	JA	1/16W
R2941	401 105 7404	JA	1/16W
R2942	401 105 2904	JA	1/16W
R2943	401 105 7909	ZA	1/16W

COMPL,PWB,AD-2
COMPL.No. 636 046 6258
(VM-EX280P,VM-EX370P ONLY)

(RESISTORS)

LOCATION	PARTS No.	DESCRIPTION	
R2931	401 105 2805	JA	1/16W
R2932	401 105 2805	JA	1/16W
R2944	401 105 7909	ZA	1/16W
R2945	401 105 0603	JA	1/16W

COMPL,PWB,CA-2
COMPL.No. 636 046 6234

(CAPACITORS)

LOCATION	PARTS No.	DESCRIPTION	
C9501	403 248 9703	M	16V
OR	403 268 6508	M	16V
C9502	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9503	403 285 4808	M	20V
C9504	403 155 2101	K	50V
OR	403 235 5404	J	50V
C9505	403 176 3200	Z	25V
C9506	403 093 0306	M	35V
OR	403 285 6406	M	35V
C9512	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9513	403 176 3200	Z	25V
C9514	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9515	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9516	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9517	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9529	403 176 3200	Z	25V
C9599	403 285 5003	M	25V

(RESISTORS)

LOCATION	PARTS No.	DESCRIPTION	
R9501	401 105 7503	JA	1/16W
R9504	401 105 4601	JA	1/16W
R9508	401 105 0702	JA	1/16W
R9509	401 105 0702	JA	1/16W

COMPL,PWB,CP-1(VM-EX220P ONLY)
COMPL.No. 636 046 5978

(CAPACITORS)

LOCATION	PARTS No.	DESCRIPTION	
C0701	403 193 7601	M	6.3V
OR	403 038 6707	M	6.3V
C0703	403 022 8205	J	50V
OR	403 023 0802	J	50V
OR	403 023 0109	J	50V
C0705	403 028 4102	J	50V
OR	403 028 6908	J	50V
OR	403 028 6007	J	50V
C0706	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C0708	403 162 3900	M	4V
OR	403 279 0205	M	4V
C0709	403 020 0409	J	50V

LOCATION	PARTS No.	DESCRIPTION	
C0709	403 020 2106	J	50V
OR	403 020 1604	J	50V
C0710	403 162 3900	M	4V
OR	403 279 0205	M	4V
C0711	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C0714	403 020 0409	J	50V
OR	403 020 2106	J	50V
OR	403 020 1604	J	50V
C0715	403 028 4102	J	50V
OR	403 028 6908	J	50V
OR	403 028 6007	J	50V
C0716	403 014 9203	J	50V
OR	403 116 0009	J	50V
OR	403 108 9102	J	50V
C0717	403 008 7406	D	50V
OR	403 008 9905	D	50V
OR	403 008 9202	D	50V
C0718	403 020 0409	J	50V
OR	403 020 2106	J	50V
OR	403 020 1604	J	50V
C0719	403 022 8205	J	50V
OR	403 023 0802	J	50V
OR	403 023 0109	J	50V
C0720	403 030 6903	J	50V
OR	403 117 5508	J	50V
OR	403 108 8709	J	50V
C0721	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C0724	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C1001	403 018 7403	J	50V
OR	403 116 0702	J	50V
OR	403 108 9201	J	50V
C1002	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C1004	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1005	403 248 9703	M	16V
OR	403 268 6508	M	16V
C1006	403 248 9703	M	16V
OR	403 268 6508	M	16V
C1007	403 285 4303	M	16V
OR	403 091 0407	M	16V
C1008	403 285 3504	M	6.3V
OR	403 114 5600	M	6.3V
C1009	403 248 9703	M	16V
OR	403 268 6508	M	16V
C1010	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1011	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C1012	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1013	403 248 9703	M	16V
OR	403 268 6508	M	16V
C1014	403 018 7403	J	50V
OR	403 116 0702	J	50V
OR	403 108 9201	J	50V
C1015	403 236 0200	Z	25V
OR	403 207 0505	Z	16V
OR	403 278 9506	Z	16V
C1016	403 024 7107	J	50V
OR	403 228 9907	J	50V
OR	403 153 2400	J	50V
C1017	403 023 4404	J	50V
OR	403 023 5500	J	50V
OR	403 023 5203	J	50V
C1020	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C1023	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1027	403 207 0307	Z	16V
OR	403 278 9605	Z	16V

LOCATION	PARTS No.	DESCRIPTION	
C1027	403 196 3105	Z	16V
C1028	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1029	403 072 1607	M	50V
OR	403 116 7800	K	50V
OR	403 108 8303	K	50V
C1030	403 285 4600	M	20V
OR	403 091 6706	M	20V
C1031	403 075 0706	K	50V
OR	403 075 1208	K	50V
OR	403 075 1109	K	50V
C1032	403 285 4303	M	16V
OR	403 091 0407	M	16V
C1033	403 236 0200	Z	25V
OR	403 207 0505	Z	16V
OR	403 278 9506	Z	16V
C1034	403 212 1603	Z	25V
OR	403 278 9803	Z	25V
OR	403 176 3309	Z	25V
C1035	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C1037	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1038	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1039	403 193 7601	M	6.3V
OR	403 038 6707	M	6.3V
C1040	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1041	403 248 9703	M	16V
OR	403 268 6508	M	16V
C1042	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1043	403 023 4404	J	50V
OR	403 023 5500	J	50V
OR	403 023 5203	J	50V
C1044	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1046	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C1050	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C1051	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1052	403 031 5608	C	50V
OR	403 032 1104	D	50V
OR	403 031 7008	C	50V
C1053	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1104	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1105	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1106	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1107	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1108	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1109	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1111	403 011 4904	J	50V
OR	403 114 1701	J	50V
OR	403 108 8907	J	50V
C1112	403 009 5708	J	50V
OR	403 009 7504	J	50V

LOCATION	PARTS No.	DESCRIPTION	
C1112	403 009 7009	J	50V
C1113	403 020 0409	J	50V
OR	403 020 2106	J	50V
OR	403 020 1604	J	50V
C1114	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C1115	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1116	403 020 0409	J	50V
OR	403 020 2106	J	50V
OR	403 020 1604	J	50V
C1117	403 012 6808	J	50V
OR	403 012 9007	J	50V
OR	403 012 8406	J	50V
C1118	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C1119	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C1120	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C1121	403 024 2102	J	50V
OR	403 024 4205	J	50V
OR	403 024 3505	J	50V
C1122	403 008 7406	D	50V
OR	403 008 9905	D	50V
OR	403 008 9202	D	50V
C1123	403 008 7406	D	50V
OR	403 008 9905	D	50V
OR	403 008 9202	D	50V
C1124	403 030 6903	J	50V
OR	403 117 5508	J	50V
OR	403 108 8709	J	50V
C1125	403 285 3504	M	6.3V
OR	403 114 5600	M	6.3V
C1126	403 285 3504	M	6.3V
OR	403 114 5600	M	6.3V
C1301	403 071 8102	K	50V
OR	403 071 8706	K	50V
OR	403 071 8508	K	50V
C1302	403 023 4404	J	50V
OR	403 023 5500	J	50V
OR	403 023 5203	J	50V
C1304	403 014 9203	J	50V
OR	403 116 0009	J	50V
OR	403 108 9102	J	50V
C1307	403 032 2309	J	50V
OR	403 278 9407	J	50V
OR	403 153 2103	J	50V
C1308	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1310	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1311	403 012 6808	J	50V
OR	403 012 9007	J	50V
OR	403 012 8406	J	50V
C1312	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1313	403 071 8102	K	50V
OR	403 071 8706	K	50V
OR	403 071 8508	K	50V
C1314	403 027 1201	C	50V
OR	403 027 3700	C	50V
OR	403 027 2901	C	50V
C1317	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C1318	403 022 8205	J	50V
OR	403 023 0802	J	50V
OR	403 023 0109	J	50V
C1319	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1320	403 068 0409	Z	25V

LOCATION	PARTS No.	DESCRIPTION	
C1320	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1321	403 032 2309	J	50V
OR	403 278 9407	J	50V
OR	403 153 2103	J	50V
C1322	403 020 5503	J	50V
OR	403 210 0806	J	50V
OR	403 153 2301	J	50V
C1323	403 023 8105	J	50V
OR	403 115 7504	J	50V
OR	403 115 7603	J	50V
C1324	403 020 5503	J	50V
OR	403 210 0806	J	50V
OR	403 153 2301	J	50V
C1410	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1411	403 008 7406	D	50V
OR	403 008 9905	D	50V
OR	403 008 9202	D	50V
C1412	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1414	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1421	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1602	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1603	403 010 8507	J	50V
OR	403 011 0708	J	50V
OR	403 011 0104	J	50V
C1604	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1605	403 020 0409	J	50V
OR	403 020 2106	J	50V
OR	403 020 1604	J	50V
C1607	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1608	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1610	403 028 4102	J	50V
OR	403 028 6908	J	50V
OR	403 028 6007	J	50V
C1611	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C1612	403 285 3108	M	4V
OR	403 089 6206	M	4V
C1613	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1614	403 010 5001	J	50V
OR	403 278 9902	J	50V
OR	403 153 2202	J	50V
C1615	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1618	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1801	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C1802	403 013 3004	J	50V
OR	403 115 9607	J	50V
OR	403 108 9003	J	50V
C1803	403 013 3004	J	50V
OR	403 115 9607	J	50V
OR	403 108 9003	J	50V
C1804	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1805	403 068 0409	Z	25V
OR	403 116 2508	Z	25V

LOCATION	PARTS No.	DESCRIPTION	
C1805	403 109 7909	Z	25V
C1901	403 285 3702	M	6.3V
OR	403 279 9000	M	6.3V
C1902	403 285 3702	M	6.3V
OR	403 279 9000	M	6.3V
C1903	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1904	403 285 3702	M	6.3V
OR	403 279 9000	M	6.3V
C1905	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1906	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1907	403 073 9107	K	50V
OR	403 116 7107	K	50V
C1909	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1911	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1912	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1913	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C1914	403 072 1607	M	50V
OR	403 116 7800	K	50V
OR	403 108 8303	K	50V
C1915	403 072 1607	M	50V
OR	403 116 7800	K	50V
OR	403 108 8303	K	50V
C1916	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C1917	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1919	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1920	403 285 3702	M	6.3V
OR	403 279 9000	M	6.3V
C1922	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1924	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1925	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1926	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1929	403 011 4904	J	50V
OR	403 114 1701	J	50V
OR	403 108 8907	J	50V
C1930	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1999	403 285 6901	M	6.3V
OR	403 274 0903	M	6.3V
C2601	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C2602	403 028 4102	J	50V
OR	403 028 6908	J	50V
OR	403 028 6007	J	50V
C2603	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C2605	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C2610	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
C2610	403 196 3105	Z	16V
C2611	403 071 8102	K	50V
OR	403 071 8706	K	50V
OR	403 071 8508	K	50V
C2614	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C2615	403 248 9703	M	16V
OR	403 268 6508	M	16V
C2616	403 258 4903	M	50V
OR	403 279 0304	M	50V
C2617	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C2618	403 018 7502	J	50V
OR	403 018 8301	J	50V
C2619	403 256 0600	M	25V
OR	403 277 5301	M	25V
C2622	403 140 9603	K	25V
OR	403 192 8708	K	25V
C2623	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C2625	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C2626	403 256 0600	M	25V
OR	403 277 5301	M	25V
C2628	403 130 3604	K	25V
OR	403 150 5008	K	25V
C2629	403 130 3604	K	25V
OR	403 150 5008	K	25V
C2630	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C2631	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C2651●	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C2701	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C2702	403 248 9703	M	16V
OR	403 268 6508	M	16V
C2704	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C2705	403 248 9703	M	16V
OR	403 268 6508	M	16V
C2801	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C3201	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C3202	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3203	403 071 8102	K	50V
OR	403 071 8706	K	50V
OR	403 071 8508	K	50V
C3204	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3205	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C3206	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C3207	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3208	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C3209	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C3211	403 009 5708	J	50V
OR	403 009 7504	J	50V
C3211	403 009 7009	J	50V
C3216	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3351	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3401	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3402	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3403	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C3404	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3405	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3406	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3501	403 285 3603	M	6.3V
OR	403 275 7406	M	6.3V
C3502	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3503	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3504	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3505	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C3506	403 020 0409	J	50V
OR	403 020 2106	J	50V
OR	403 020 1604	J	50V
C3507	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C3509	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C3510	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C3513	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C3516	403 026 7501	J	50V
OR	403 133 9009	J	50V
OR	403 108 9300	J	50V
C3517	403 026 7501	J	50V
OR	403 133 9009	J	50V
OR	403 108 9300	J	50V
C3551	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3552	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3571	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3572	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3573	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3576	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3577	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3578	403 068 0409	Z	25V
C3578	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3602	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3603	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3604	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3606	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3607	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3608	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3801	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C3802	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3803	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3804	403 073 1200	K	50V
OR	403 220 5600	K	50V
OR	403 153 4008	K	50V
C3805	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3806	403 073 0005	K	50V
OR	403 116 6902	K	50V
OR	403 108 7504	K	50V
C3807	403 068 5107	Z	25V
OR	403 257 6700	Z	25V
OR	403 109 8302	Z	50V
C3808	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3809	403 072 1607	M	50V
OR	403 116 7800	K	50V
OR	403 108 8303	K	50V
C3810	403 072 1607	M	50V
OR	403 116 7800	K	50V
OR	403 108 8303	K	50V
C3811	403 070 8806	K	50V
OR	403 107 0209	K	50V
C3812	403 070 8806	K	50V
OR	403 107 0209	K	50V
C3813	403 070 8806	K	50V
OR	403 107 0209	K	50V
C3814	403 073 1200	K	50V
OR	403 220 5600	K	50V
OR	403 153 4008	K	50V
C3815	403 073 1200	K	50V
OR	403 220 5600	K	50V
OR	403 153 4008	K	50V
C3816	403 073 1200	K	50V
OR	403 220 5600	K	50V
OR	403 153 4008	K	50V
C3817	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3818	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3819	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3820	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3901	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C3902	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V

LOCATION	PARTS No.	DESCRIPTION
C3903	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C3904	403 009 5708	J 50V
OR	403 009 7504	J 50V
OR	403 009 7009	J 50V
C3905	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C3906	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C3907	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
(RESISTORS)		
R0702	401 105 7305	JA 1/16W
R0703	401 105 7305	JA 1/16W
R0704	401 105 5905	JA 1/16W
R0705	401 105 7909	ZA 1/16W
R0706	401 105 4007	JA 1/16W
R0707	401 166 3001	DU 1/16W
R0708	401 105 0603	JA 1/16W
R0709	401 166 6705	DU 1/16W
R0710	401 166 6705	DU 1/16W
R0711	401 105 3307	JA 1/16W
R0714	401 105 5905	JA 1/16W
R0715	401 166 6309	DU 1/16W
R0716	401 105 0900	JA 1/16W
R0718	401 105 4106	JA 1/16W
R0719	401 166 8600	DU 1/16W
R0720	401 105 2706	JA 1/16W
R0721	401 105 7909	ZA 1/16W
R0722	401 105 7305	JA 1/16W
R0723	401 105 0603	JA 1/16W
R0724	401 105 2706	JA 1/16W
R0725	401 105 6506	JA 1/16W
R0726	401 166 3001	DU 1/16W
R0727	401 166 6507	DU 1/16W
R0728	401 105 2706	JA 1/16W
R0729	401 105 6506	JA 1/16W
R0730	401 105 2805	JA 1/16W
R0731	401 105 5905	JA 1/16W
R0732	401 105 5905	JA 1/16W
R0733	401 105 1907	JA 1/16W
R0734	401 105 2706	JA 1/16W
R0735	401 105 5905	JA 1/16W
R0736	401 105 7909	ZA 1/16W
R0737	401 105 5905	JA 1/16W
R0739	401 105 5400	JA 1/16W
R0743	401 105 1303	JA 1/16W
R1001	401 105 2805	JA 1/16W
R1003	401 105 0504	JA 1/16W
R1004	401 105 0504	JA 1/16W
R1005	401 105 0504	JA 1/16W
R1008	401 105 0504	JA 1/16W
R1009	401 105 5400	JA 1/16W
R1010	401 105 0504	JA 1/16W
R1011	401 105 4106	JA 1/16W
R1012	401 105 5202	JA 1/16W
R1013	401 105 1006	JA 1/16W
R1014	401 105 1006	JA 1/16W
R1020	401 105 4106	JA 1/16W
R1023	401 167 0900	DU 1/16W
R1024	401 105 6001	JA 1/16W
R1025	401 105 4601	JA 1/16W
R1026	401 105 0504	JA 1/16W
R1027	401 105 2805	JA 1/16W
R1028	401 105 0603	JA 1/16W
R1029	401 105 5301	JA 1/16W
R1030	401 105 3406	JA 1/16W
R1031	401 105 7909	ZA 1/16W
R1032	401 105 2102	JA 1/16W
R1033	401 105 7909	ZA 1/16W
R1034	401 105 6605	JA 1/16W
R1035	401 105 4700	JA 1/16W
R1036	401 105 4403	JA 1/16W
R1037	401 166 8105	DU 1/16W
R1038	401 166 7900	DU 1/16W
R1039	401 166 5302	DC 1/16W
R1041	401 105 5202	JA 1/16W
R1042	401 105 7404	JA 1/16W
R1043	401 105 1709	JA 1/16W
R1044	401 105 2805	JA 1/16W
R1051	401 098 7603	JA 1/10W
R1052	401 098 7603	JA 1/10W
R1054	401 105 2102	JA 1/16W
R1055	401 105 3406	JA 1/16W
R1056	401 105 7909	ZA 1/16W
R1058	401 105 7909	ZA 1/16W
R1060	401 098 7603	JA 1/10W
R1061	401 105 5400	JA 1/16W
R1062	401 105 5400	JA 1/16W
R1068	401 114 0502	JA 1/16W
R1069	401 105 4304	JA 1/16W
R1072	401 105 7404	JA 1/16W
R1073	401 105 4700	JA 1/16W
R1076	401 105 0603	JA 1/16W
R1077	401 105 0603	JA 1/16W
R1078	401 105 2003	JA 1/16W
R1079	401 105 7404	JA 1/16W
R1080	401 105 5301	JA 1/16W
R1101	401 098 7603	JA 1/10W
R1103	401 105 7909	ZA 1/16W
R1105	401 105 0900	JA 1/16W
R1106	401 105 7503	JA 1/16W
R1107	401 105 6100	JA 1/16W
R1108	401 105 2003	JA 1/16W
R1109	401 105 0504	JA 1/16W
R1110	401 105 1501	JA 1/16W
R1111	401 105 5905	JA 1/16W
R1112	401 105 7305	JA 1/16W
R1113	401 105 6506	JA 1/16W
R1114	401 113 6109	JA 1/16W
R1116	401 105 7909	ZA 1/16W
R1117	401 105 1501	JA 1/16W
R1118	401 105 1006	JA 1/16W
R1119	401 105 5905	JA 1/16W
R1120	401 105 2805	JA 1/16W
R1121	401 105 7305	JA 1/16W
R1122	401 105 0504	JA 1/16W
R1123	401 105 5905	JA 1/16W
R1124	401 105 0504	JA 1/16W
R1126	401 105 7909	ZA 1/16W
R1127	401 105 4205	JA 1/16W
R1128	401 105 2904	JA 1/16W
R1129	401 105 4205	JA 1/16W
R1130	401 105 2904	JA 1/16W
R1301	401 105 5905	JA 1/16W
R1302	401 105 2003	JA 1/16W
R1304	401 105 1501	JA 1/16W
R1306	401 105 6001	JA 1/16W
R1307	401 105 5905	JA 1/16W
R1312	401 105 0306	JA 1/16W
R1313	401 105 5905	JA 1/16W
R1314	401 105 7909	ZA 1/16W
R1315	401 105 5905	JA 1/16W
R1317	401 105 7909	ZA 1/16W
R1319	401 105 1501	JA 1/16W
R1320	401 105 0603	JA 1/16W
R1321	401 105 1105	JA 1/16W
R1322	401 105 7305	JA 1/16W
R1324	401 105 4007	JA 1/16W
R1325	401 105 4502	JA 1/16W
R1326	401 105 2003	JA 1/16W
R1327	401 105 1501	JA 1/16W
R1328	401 105 2003	JA 1/16W
R1329	401 105 2003	JA 1/16W
R1331	401 105 0900	JA 1/16W
R1332	401 105 5905	JA 1/16W
R1333	401 105 4007	JA 1/16W
R1346	401 105 6506	JA 1/16W
R1355	401 037 5103	JA 1/10W
R1359	401 105 5905	JA 1/16W
R1360	401 105 4502	JA 1/16W
R1406	401 105 0504	JA 1/16W
R1413	401 105 6001	JA 1/16W
R1416	401 105 2003	JA 1/16W
R1417	401 105 1006	JA 1/16W
R1419	401 105 4106	JA 1/16W
R1421	401 166 9706	DU 1/16W
R1422	401 105 7305	JA 1/16W
R1423	401 167 0504	DU 1/16W
R1424	401 105 5301	JA 1/16W
R1426	401 105 1600	JA 1/16W
R1428	401 105 5301	JA 1/16W
R1429	401 105 1501	JA 1/16W
R1430	401 105 0603	JA 1/16W
R1433	401 105 0603	JA 1/16W
R1437	401 166 8105	DU 1/16W
R1438	401 105 7909	ZA 1/16W
R1439	401 105 5301	JA 1/16W
R1440	401 105 7909	ZA 1/16W
R1441	401 105 7909	ZA 1/16W
R1442	401 038 6703	JA 1/10W
R1443	401 105 0504	JA 1/16W
R1444	401 113 6208	JA 1/16W
R1445	401 038 2507	JA 1/10W
R1447	401 105 0603	JA 1/16W
R1448	401 105 1501	JA 1/16W
R1450	401 113 6703	JA 1/16W
R1464	401 105 7909	ZA 1/16W
R1475	401 113 6109	JA 1/16W
R1476	401 105 2003	JA 1/16W
R1477	401 105 2805	JA 1/16W
R1492	401 105 7909	ZA 1/16W
R1605	401 105 2904	JA 1/16W
R1607	401 105 3406	JA 1/16W
R1608	401 105 4007	JA 1/16W
R1609	401 105 4205	JA 1/16W
R1610	401 105 0702	JA 1/16W
R1611	401 105 4304	JA 1/16W
R1612	401 105 3000	JA 1/16W
R1613	401 105 2706	JA 1/16W
R1617	401 105 2003	JA 1/16W
R1618	401 113 5706	JA 1/16W
R1619	401 105 1501	JA 1/16W
R1620	401 105 4106	JA 1/16W
R1623	401 098 7603	JA 1/10W
R1624	401 105 7909	ZA 1/16W
R1625	401 105 5202	JA 1/16W
R1626	401 105 0603	JA 1/16W
R1627	401 105 0603	JA 1/16W
R1628	401 105 7404	JA 1/16W
R1629	401 105 0603	JA 1/16W
R1630	401 105 7909	ZA 1/16W
R1634	401 105 7909	ZA 1/16W
R1801	401 105 0306	JA 1/16W
R1802	401 105 3208	JA 1/16W
R1803	401 105 2706	JA 1/16W
R1804	401 105 2904	JA 1/16W
R1805	401 105 4205	JA 1/16W
R1806	401 038 6703	JA 1/10W
R1901	401 038 2507	JA 1/10W
R1902	401 038 2507	JA 1/10W
R1903	401 105 2003	JA 1/16W
R1904	401 113 5300	JA 1/16W
R1905	401 166 2905	DU 1/16W
R1906	401 167 1402	DU 1/16W
R1907	401 167 0108	DU 1/16W
R1908	401 105 7909	ZA 1/16W
R1910	401 166 9904	DU 1/16W
R1911	401 166 3209	DD 1/16W
R1912	401 166 2905	DU 1/16W
R1913	401 167 1402	DU 1/16W
R1914	401 105 5509	JA 1/16W
R1918	401 167 1402	DU 1/16W
R1919	401 167 0108	DU 1/16W
R1920	401 167 1402	DU 1/16W
R1921	401 167 0108	DU 1/16W
R1922	401 105 3406	JA 1/16W
R1923	401 105 2102	JA 1/16W
R1924	401 105 2805	JA 1/16W
R1925	401 105 0603	JA 1/16W
R1926	401 105 0603	JA 1/16W
R1927	401 167 0108	DU 1/16W
R1928	401 166 3209	DD 1/16W
R1929	401 166 7306	DU 1/16W
R1930	401 166 7306	DU 1/16W
R1931	401 166 3209	DD 1/16W
R1932	401 167 0108	DU 1/16W
R1933	401 167 0702	DU 1/16W
R1934	401 167 0900	DU 1/16W
R1935	401 105 0603	JA 1/16W
R1936	401 105 2201	JA 1/16W
R1937	401 105 7909	ZA 1/16W
R1939	401 105 7909	ZA 1/16W
R1941	401 105 4106	JA 1/16W
R1944	401 105 7909	ZA 1/16W
R1945	401 166 8006	DU 1/16W
R1946	401 105 1105	JA 1/16W
R1947	401 105 1105	JA 1/16W
R1948	401 105 2706	JA 1/16W
R1949	401 105 4106	JA 1/16W
R1950	401 105 8203	JA 1/16W
R1989	401 105 7909	ZA 1/16W
R1995	401 105 7909	ZA 1/16W
R1997	401 038 2507	JA 1/10W
R1998	401 105 0405	JA 1/16W
R1999	401 105 5202	JA 1/16W
R2601	401 105 6605	JA 1/16W
R2610	401 105 4205	JA 1/16W
R2611	401 105 0603	JA 1/16W
R2617	401 167 0900	DU 1/16W
R2618	401 114 0908	JA 1/16W
R2619	401 167 0009	DU 1/16W
R2620	401 167 0306	DU 1/16W
R2621	401 105 6001	JA 1/16W
R2622	401 105 1006	JA 1/16W
R2640	401 105 0504	JA 1/16W
R2641	401 105 7909	ZA 1/16W
R2651	401 105 0504	JA 1/16W
R2652	401 105 0504	JA 1/16W
R2658	401 105 0702	JA 1/16W
R2660	401 105 7909	ZA 1/16W
R2701	401 105 2904	JA 1/16W
R2702	401 105 3406	JA 1/16W
R2703	401 105 1907	JA 1/16W
R2704	401 105 0504	JA 1/16W
R2705	401 105 2805	JA 1/16W
R2706	401 105 5301	JA 1/16W
R2707	401 105 2706	JA 1/16W
R2802	401 105 7909	ZA 1/16W
R2806	401 105 7909	ZA 1/16W
R2821	401 105 7909	ZA 1/16W
R2824	401 105 6605	JA 1/16W
R3101	401 105 0603	JA 1/16W
R3201	401 105 4106	JA 1/16W
R3202	401 105 5509	JA 1/16W
R3203	401 105 4700	JA 1/16W
R3204	401 105 5509	JA 1/16W
R3205	401 105 1204	JA 1/16W
R3206	401 105 0603	JA 1/16W
R3207	401 105 3901	JA 1/16W
R3208	401 105 5301	JA 1/16W
R3209	401 105 4106	JA 1/16W
R3211	401 105 0603	JA 1/16W
R3213	401 105 0603	JA 1/16W
R3215	401 105 4106	JA 1/16W
R3216	401 105 0603	JA 1/16W
R3217	401 105 0603	JA 1/16W
R3301	401 105 0603	JA 1/16W
R3302	401 105 0603	JA 1/16W
R3303	401 105 5400	JA 1/16W
R3304	401 105 8104	JA 1/16W
R3305	401 105 5400	JA 1/16W
R3306	401 105 5400	JA 1/16W
R3307	401 038 0602	JA 1/10W
R3308	401 037 5202	JA 1/10W
R3309	401 105 0702	JA 1/16W
R3351	401 105 5202	JA 1/16W
R3352	401 112 8005	JA 1/16W
R3355	401 105 7909	ZA 1/16W
R3401	401 105 0504	JA 1/16W
R3402	401 105 0702	JA 1/16W
R3502	401 105 0504	JA 1/16W
R3503	401 105 0504	JA 1/16W
R3504	401 105 0702	JA 1/16W
R3505	401 105 0603	JA 1/16W
R3506	401 105 0702	JA 1/16W
R3508	401 105 0702	JA 1/16W
R3509	401 105 0603	JA 1/16W
R3511	401 105 7909	ZA 1/16W

LOCATION	PARTS No.	DESCRIPTION
R3512	401 105 8005	JA 1/16W
R3513	401 105 0504	JA 1/16W
R3514	401 114 0908	JA 1/16W
R3515	401 105 7909	ZA 1/16W
R3516	401 105 0504	JA 1/16W
R3517	401 105 7909	ZA 1/16W
R3519	401 105 7909	ZA 1/16W
R3521	401 167 2508	DD 1/16W
R3522	401 105 1600	JA 1/16W
R3523	401 167 2508	DD 1/16W
R3524	401 105 3505	JA 1/16W
R3525	401 105 0603	JA 1/16W
R3526	401 105 5400	JA 1/16W
R3527	401 105 0702	JA 1/16W
R3530	401 105 0603	JA 1/16W
R3531	401 105 0603	JA 1/16W
R3532	401 105 0702	JA 1/16W
R3533	401 105 0504	JA 1/16W
R3534	401 105 0603	JA 1/16W
R3535	401 105 0603	JA 1/16W
R3536	401 105 0603	JA 1/16W
R3551	401 105 0702	JA 1/16W
R3552	401 105 0702	JA 1/16W
R3553	401 105 5301	JA 1/16W
R3571	401 105 0504	JA 1/16W
R3572	401 105 0504	JA 1/16W
R3573	401 105 5400	JA 1/16W
R3575	401 105 0603	JA 1/16W
R3576	401 105 0603	JA 1/16W
R3596	401 105 5400	JA 1/16W
R3601	401 105 2904	JA 1/16W
R3602	401 158 4108	JA 1/16W
R3603	401 158 4108	JA 1/16W
R3604	401 158 4108	JA 1/16W
R3605	401 105 4700	JA 1/16W
R3606	401 105 0702	JA 1/16W
R3607	401 105 0504	JA 1/16W
R3608	401 105 4106	JA 1/16W
R3609	401 105 2003	JA 1/16W
R3610	401 105 7909	ZA 1/16W
R3801	401 105 0702	JA 1/16W
R3802	401 105 0603	JA 1/16W
R3803	401 105 8005	JA 1/16W
R3804	401 105 1600	JA 1/16W
R3805	401 110 8601	JA 1/10W
R3806	401 110 8601	JA 1/10W
R3807	401 105 0603	JA 1/16W
R3808	401 105 0603	JA 1/16W
R3809	401 105 4601	JA 1/16W
R3816	401 105 5103	JA 1/16W
R3817	401 105 5103	JA 1/16W
R3901	401 105 0504	JA 1/16W
R3902	401 105 4601	JA 1/16W
R3905	401 105 5905	JA 1/16W
R3906	401 167 0306	DU 1/16W
R3907	401 167 0306	DU 1/16W
R3908	401 105 0702	JA 1/16W

COMPL,PWB,CP-1(VM-EX280P ONLY)

COMPL.No. 636 046 5992

(CAPACITORS)

LOCATION	PARTS No.	DESCRIPTION
C0701	403 193 7601	M 6.3V
OR	403 038 6707	M 6.3V
C0703	403 022 8205	J 50V
OR	403 023 0802	J 50V
OR	403 023 0109	J 50V
C0705	403 028 4102	J 50V
OR	403 028 6908	J 50V
OR	403 028 6007	J 50V
C0706	403 026 2803	J 50V
OR	403 115 8105	J 50V
OR	403 108 8600	J 50V
C0708	403 162 3900	M 4V
OR	403 279 0205	M 4V
C0709	403 020 0409	J 50V
OR	403 020 2106	J 50V
OR	403 020 1604	J 50V
C0710	403 162 3900	M 4V
OR	403 279 0205	M 4V
C0711	403 258 4200	M 6.3V
C0711	403 277 5400	M 6.3V
C0714	403 020 0409	J 50V
OR	403 020 2106	J 50V
OR	403 020 1604	J 50V
C0715	403 028 4102	J 50V
OR	403 028 6908	J 50V
OR	403 028 6007	J 50V
C0716	403 014 9203	J 50V
OR	403 116 0009	J 50V
OR	403 108 9102	J 50V
C0717	403 008 7406	D 50V
OR	403 008 9905	D 50V
OR	403 008 9202	D 50V
C0718	403 020 0409	J 50V
OR	403 020 2106	J 50V
OR	403 020 1604	J 50V
C0719	403 022 8205	J 50V
OR	403 023 0802	J 50V
OR	403 023 0109	J 50V
C0720	403 030 6903	J 50V
OR	403 117 5508	J 50V
OR	403 108 8709	J 50V
C0721	403 069 1702	K 50V
OR	403 069 2204	K 50V
OR	403 069 2105	K 50V
C0724	403 009 5708	J 50V
OR	403 009 7504	J 50V
OR	403 009 7009	J 50V
C1001	403 018 7403	J 50V
OR	403 116 0702	J 50V
OR	403 108 9201	J 50V
C1002	403 258 4200	M 6.3V
OR	403 277 5400	M 6.3V
C1004	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C1005	403 248 9703	M 16V
OR	403 268 6508	M 16V
C1006	403 248 9703	M 16V
OR	403 268 6508	M 16V
C1007	403 285 4303	M 16V
OR	403 091 0407	M 16V
C1008	403 285 3504	M 6.3V
OR	403 114 5600	M 6.3V
C1009	403 248 9703	M 16V
OR	403 268 6508	M 16V
C1010	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C1011	403 258 4200	M 6.3V
OR	403 277 5400	M 6.3V
C1012	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C1013	403 248 9703	M 16V
OR	403 268 6508	M 16V
C1014	403 018 7403	J 50V
OR	403 116 0702	J 50V
OR	403 108 9201	J 50V
C1015	403 236 0200	Z 25V
OR	403 207 0505	Z 16V
OR	403 278 9506	Z 16V
C1016	403 024 7107	J 50V
OR	403 228 9907	J 50V
OR	403 153 2400	J 50V
C1017	403 023 4404	J 50V
OR	403 023 5500	J 50V
OR	403 023 5203	J 50V
C1020	403 026 2803	J 50V
OR	403 115 8105	J 50V
OR	403 108 8600	J 50V
C1023	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C1027	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C1028	403 069 1702	K 50V
OR	403 069 2204	K 50V
OR	403 069 2105	K 50V
C1029	403 072 1607	M 50V
C1029	403 116 7800	K 50V
OR	403 108 8303	K 50V
C1030	403 285 4600	M 20V
OR	403 091 6706	M 20V
C1031	403 075 0706	K 50V
OR	403 075 1208	K 50V
OR	403 075 1109	K 50V
C1032	403 285 4303	M 16V
OR	403 091 0407	M 16V
C1033	403 236 0200	Z 25V
OR	403 207 0505	Z 16V
OR	403 278 9506	Z 16V
C1034	403 212 1603	Z 25V
OR	403 278 9803	Z 25V
OR	403 176 3309	Z 25V
C1035	403 009 5708	J 50V
OR	403 009 7504	J 50V
OR	403 009 7009	J 50V
C1037	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C1038	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C1039	403 193 7601	M 6.3V
OR	403 038 6707	M 6.3V
C1040	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C1041	403 248 9703	M 16V
OR	403 268 6508	M 16V
C1042	403 069 1702	K 50V
OR	403 069 2204	K 50V
OR	403 069 2105	K 50V
C1043	403 023 4404	J 50V
OR	403 023 5500	J 50V
OR	403 023 5203	J 50V
C1044	403 069 1702	K 50V
OR	403 069 2204	K 50V
OR	403 069 2105	K 50V
C1046	403 258 4200	M 6.3V
OR	403 277 5400	M 6.3V
C1050	403 258 4200	M 6.3V
OR	403 277 5400	M 6.3V
C1051	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C1052	403 031 5608	C 50V
OR	403 032 1104	D 50V
OR	403 031 7008	C 50V
C1053	403 069 1702	K 50V
OR	403 069 2204	K 50V
OR	403 069 2105	K 50V
C1104	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C1105	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C1106	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C1107	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C1108	403 069 1702	K 50V
OR	403 069 2204	K 50V
OR	403 069 2105	K 50V
C1109	403 069 1702	K 50V
OR	403 069 2204	K 50V
OR	403 069 2105	K 50V
C1111	403 011 4904	J 50V
OR	403 114 1701	J 50V
OR	403 108 8907	J 50V
C1112	403 009 5708	J 50V
OR	403 009 7504	J 50V
OR	403 009 7009	J 50V
C1113	403 020 0409	J 50V
OR	403 020 2106	J 50V
OR	403 020 1604	J 50V
C1114	403 018 0503	J 50V
C1114	403 018 3207	J 50V
OR	403 018 2408	J 50V
C1115	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C1116	403 020 0409	J 50V
OR	403 020 2106	J 50V
OR	403 020 1604	J 50V
C1117	403 012 6808	J 50V
OR	403 012 9007	J 50V
OR	403 012 8406	J 50V
C1118	403 026 2803	J 50V
OR	403 115 8105	J 50V
OR	403 108 8600	J 50V
C1119	403 009 5708	J 50V
OR	403 009 7504	J 50V
OR	403 009 7009	J 50V
C1120	403 026 2803	J 50V
OR	403 115 8105	J 50V
OR	403 108 8600	J 50V
C1121	403 024 2102	J 50V
OR	403 024 4205	J 50V
OR	403 024 3505	J 50V
C1122	403 008 7406	D 50V
OR	403 008 9905	D 50V
OR	403 008 9202	D 50V
C1123	403 008 7406	D 50V
OR	403 008 9905	D 50V
OR	403 008 9202	D 50V
C1124	403 030 6903	J 50V
OR	403 117 5508	J 50V
OR	403 108 8709	J 50V
C1125	403 285 3504	M 6.3V
OR	403 114 5600	M 6.3V
C1126	403 285 3504	M 6.3V
OR	403 114 5600	M 6.3V
C1301	403 071 8102	K 50V
OR	403 071 8706	K 50V
OR	403 071 8508	K 50V
C1302	403 023 4404	J 50V
OR	403 023 5500	J 50V
OR	403 023 5203	J 50V
C1303	403 014 3409	J 50V
OR	403 014 5403	J 50V
OR	403 014 4802	J 50V
C1304	403 010 5001	J 50V
OR	403 278 9902	J 50V
OR	403 153 2202	J 50V
C1307	403 032 2309	J 50V
OR	403 278 9407	J 50V
OR	403 153 2103	J 50V
C1308	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C1310	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C1311	403 012 6808	J 50V
OR	403 012 9007	J 50V
OR	403 012 8406	J 50V
C1312	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C1313	403 071 8102	K 50V
OR	403 071 8706	K 50V
OR	403 071 8508	K 50V
C1314	403 027 1201	C 50V
OR	403 027 3700	C 50V
OR	403 027 2901	C 50V
C1317	403 018 0503	J 50V
OR	403 018 3207	J 50V
OR	403 018 2408	J 50V
C1318	403 022 8205	J 50V
OR	403 023 0802	J 50V
OR	403 023 0109	J 50V
C1319	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C1320	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V

LOCATION	PARTS No.	DESCRIPTION	
C1321	403 032 2309	J	50V
OR	403 278 9407	J	50V
OR	403 153 2103	J	50V
C1322	403 020 5503	J	50V
OR	403 210 0806	J	50V
OR	403 153 2301	J	50V
C1323	403 023 8105	J	50V
OR	403 115 7504	J	50V
OR	403 115 7603	J	50V
C1324	403 020 5503	J	50V
OR	403 210 0806	J	50V
OR	403 153 2301	J	50V
C1410	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1411	403 008 7406	D	50V
OR	403 008 9905	D	50V
OR	403 008 9202	D	50V
C1412	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1414	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1421	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1430	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1602	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1603	403 010 8507	J	50V
OR	403 011 0708	J	50V
OR	403 011 0104	J	50V
C1604	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1605	403 020 0409	J	50V
OR	403 020 2106	J	50V
OR	403 020 1604	J	50V
C1607	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1608	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1610	403 028 4102	J	50V
OR	403 028 6908	J	50V
OR	403 028 6007	J	50V
C1611	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C1612	403 285 3108	M	4V
OR	403 089 6206	M	4V
C1613	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1614	403 010 5001	J	50V
OR	403 278 9902	J	50V
OR	403 153 2202	J	50V
C1615	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1618	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1801	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C1802	403 013 3004	J	50V
OR	403 115 9607	J	50V
OR	403 108 9003	J	50V
C1803	403 013 3004	J	50V
OR	403 115 9607	J	50V
OR	403 108 9003	J	50V
C1804	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1805	403 068 0409	Z	25V
C1805	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1901	403 285 3702	M	6.3V
OR	403 279 9000	M	6.3V
C1902	403 285 3702	M	6.3V
OR	403 279 9000	M	6.3V
C1903	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1904	403 285 3702	M	6.3V
OR	403 279 9000	M	6.3V
C1905	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1906	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1907	403 073 9107	K	50V
OR	403 116 7107	K	50V
C1909	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1911	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1912	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1913	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C1914	403 072 1607	M	50V
OR	403 116 7800	K	50V
OR	403 108 8303	K	50V
C1915	403 072 1607	M	50V
OR	403 116 7800	K	50V
OR	403 108 8303	K	50V
C1916	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C1917	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1919	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1920	403 285 3702	M	6.3V
OR	403 279 9000	M	6.3V
C1922	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1924	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1925	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1926	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1929	403 011 4904	J	50V
OR	403 114 1701	J	50V
OR	403 108 8907	J	50V
C1930	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1999	403 285 6901	M	6.3V
OR	403 274 0903	M	6.3V
C2801	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C3201	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C3202	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3203	403 071 8102	K	50V
OR	403 071 8706	K	50V
OR	403 071 8508	K	50V
C3204	403 207 0307	Z	16V
C3204	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3205	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C3206	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C3207	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3208	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C3209	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C3211	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C3216	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3351	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3401	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3402	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3403	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C3404	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3405	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3406	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3501	403 285 3603	M	6.3V
OR	403 275 7406	M	6.3V
C3502	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3503	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3504	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3505	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C3506	403 020 0409	J	50V
OR	403 020 2106	J	50V
OR	403 020 1604	J	50V
C3507	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C3509	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C3510	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C3513	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C3516	403 026 7501	J	50V
OR	403 133 9009	J	50V
OR	403 108 9300	J	50V
C3517	403 026 7501	J	50V
OR	403 133 9009	J	50V
OR	403 108 9300	J	50V
C3551	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3552	403 068 0409	Z	25V
C3552	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3571	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3572	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3573	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3576	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3577	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3578	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3602	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3603	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3604	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3606	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3607	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3608	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3751	403 068 5107	Z	25V
OR	403 257 6700	Z	25V
OR	403 109 8302	Z	50V
C3753	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C3754	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C3801	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C3802	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3803	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3804	403 073 1200	K	50V
OR	403 220 5600	K	50V
OR	403 153 4008	K	50V
C3805	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3806	403 073 0005	K	50V
OR	403 116 6902	K	50V
OR	403 108 7504	K	50V
C3807	403 068 5107	Z	25V
OR	403 257 6700	Z	25V
OR	403 109 8302	Z	50V
C3808	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3809	403 072 1607	M	50V
OR	403 116 7800	K	50V
OR	403 108 8303	K	50V
C3810	403 072 1607	M	50V
OR	403 116 7800	K	50V
OR	403 108 8303	K	50V
C3811	403 070 8806	K	50V
OR	403 107 0209	K	50V
C3812	403 070 8806	K	50V
OR	403 107 0209	K	50V
C3813	403 070 8806	K	50V

LOCATION	PARTS No.	DESCRIPTION
C3813	403 107 0209	K 50V
C3814	403 073 1200	K 50V
OR	403 220 5600	K 50V
OR	403 153 4008	K 50V
C3815	403 073 1200	K 50V
OR	403 220 5600	K 50V
OR	403 153 4008	K 50V
C3816	403 073 1200	K 50V
OR	403 220 5600	K 50V
OR	403 153 4008	K 50V
C3817	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3818	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3819	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C3820	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C3901	403 258 4200	M 6.3V
OR	403 277 5400	M 6.3V
C3902	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C3903	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C3904	403 009 5708	J 50V
OR	403 009 7504	J 50V
OR	403 009 7009	J 50V
C3905	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C3906	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C3907	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V

(RESISTORS)

LOCATION	PARTS No.	DESCRIPTION
R0702	401 105 7305	JA 1/16W
R0703	401 105 7305	JA 1/16W
R0704	401 105 5905	JA 1/16W
R0705	401 105 7909	ZA 1/16W
R0706	401 105 4007	JA 1/16W
R0707	401 166 3001	DU 1/16W
R0708	401 105 0603	JA 1/16W
R0709	401 166 6705	DU 1/16W
R0710	401 166 6705	DU 1/16W
R0711	401 105 3307	JA 1/16W
R0714	401 105 5905	JA 1/16W
R0715	401 166 6309	DU 1/16W
R0716	401 105 0900	JA 1/16W
R0718	401 105 4106	JA 1/16W
R0719	401 166 8600	DU 1/16W
R0720	401 105 2706	JA 1/16W
R0721	401 105 7909	ZA 1/16W
R0722	401 105 7305	JA 1/16W
R0723	401 105 0603	JA 1/16W
R0724	401 105 2706	JA 1/16W
R0725	401 105 6506	JA 1/16W
R0726	401 166 3001	DU 1/16W
R0727	401 166 6507	DU 1/16W
R0728	401 105 2706	JA 1/16W
R0729	401 105 6506	JA 1/16W
R0730	401 105 2805	JA 1/16W
R0731	401 105 5905	JA 1/16W
R0732	401 105 5905	JA 1/16W
R0733	401 105 1907	JA 1/16W
R0734	401 105 2706	JA 1/16W
R0735	401 105 5905	JA 1/16W
R0736	401 105 7909	ZA 1/16W
R0737	401 105 5905	JA 1/16W
R0739	401 105 5400	JA 1/16W
R0743	401 105 1303	JA 1/16W
R1001	401 105 2805	JA 1/16W
R1003	401 105 0504	JA 1/16W
R1004	401 105 0504	JA 1/16W
R1005	401 105 0504	JA 1/16W
R1008	401 105 0504	JA 1/16W
R1009	401 105 5400	JA 1/16W
R1010	401 105 0504	JA 1/16W
R1011	401 105 4106	JA 1/16W
R1012	401 105 5202	JA 1/16W
R1013	401 105 1006	JA 1/16W
R1014	401 105 1006	JA 1/16W
R1020	401 105 4106	JA 1/16W
R1023	401 167 0900	DU 1/16W
R1024	401 105 6001	JA 1/16W
R1025	401 105 4601	JA 1/16W
R1026	401 105 0504	JA 1/16W
R1027	401 105 2805	JA 1/16W
R1028	401 105 0603	JA 1/16W
R1029	401 105 5301	JA 1/16W
R1030	401 105 3406	JA 1/16W
R1031	401 105 7909	ZA 1/16W
R1032	401 105 2102	JA 1/16W
R1033	401 105 7909	ZA 1/16W
R1034	401 105 6605	JA 1/16W
R1035	401 105 4700	JA 1/16W
R1036	401 105 4403	JA 1/16W
R1037	401 166 8105	DU 1/16W
R1038	401 166 7900	DU 1/16W
R1039	401 166 5302	DC 1/16W
R1041	401 105 5202	JA 1/16W
R1042	401 105 7404	JA 1/16W
R1043	401 105 1709	JA 1/16W
R1044	401 105 2805	JA 1/16W
R1051	401 098 7603	JA 1/10W
R1052	401 098 7603	JA 1/10W
R1054	401 105 2102	JA 1/16W
R1055	401 105 3406	JA 1/16W
R1056	401 105 7909	ZA 1/16W
R1058	401 105 7909	ZA 1/16W
R1060	401 098 7603	JA 1/10W
R1061	401 105 5400	JA 1/16W
R1062	401 105 5400	JA 1/16W
R1068	401 114 0502	JA 1/16W
R1069	401 105 4304	JA 1/16W
R1072	401 105 7404	JA 1/16W
R1073	401 105 4700	JA 1/16W
R1076	401 105 0603	JA 1/16W
R1077	401 105 0603	JA 1/16W
R1078	401 105 2003	JA 1/16W
R1079	401 105 7404	JA 1/16W
R1080	401 105 5301	JA 1/16W
R1101	401 098 7603	JA 1/10W
R1103	401 105 7909	ZA 1/16W
R1105	401 105 0900	JA 1/16W
R1106	401 105 7503	JA 1/16W
R1107	401 105 6100	JA 1/16W
R1108	401 105 2003	JA 1/16W
R1109	401 105 0504	JA 1/16W
R1110	401 105 1501	JA 1/16W
R1111	401 105 5905	JA 1/16W
R1112	401 105 7305	JA 1/16W
R1113	401 105 6506	JA 1/16W
R1114	401 113 6109	JA 1/16W
R1116	401 105 7909	ZA 1/16W
R1117	401 105 1501	JA 1/16W
R1118	401 105 1006	JA 1/16W
R1119	401 105 5905	JA 1/16W
R1120	401 105 2805	JA 1/16W
R1121	401 105 7305	JA 1/16W
R1122	401 105 0504	JA 1/16W
R1123	401 105 5905	JA 1/16W
R1124	401 105 0504	JA 1/16W
R1126	401 105 7909	ZA 1/16W
R1127	401 105 4205	JA 1/16W
R1128	401 105 2904	JA 1/16W
R1129	401 105 4205	JA 1/16W
R1130	401 105 2904	JA 1/16W
R1301	401 105 5905	JA 1/16W
R1302	401 105 2003	JA 1/16W
R1304	401 105 1501	JA 1/16W
R1306	401 105 6605	JA 1/16W
R1307	401 105 5905	JA 1/16W
R1312	401 105 0306	JA 1/16W
R1313	401 105 5905	JA 1/16W
R1314	401 105 7909	ZA 1/16W
R1315	401 105 5905	JA 1/16W
R1317	401 105 7909	ZA 1/16W
R1319	401 105 1501	JA 1/16W
R1320	401 105 0603	JA 1/16W
R1321	401 105 1105	JA 1/16W
R1322	401 105 7305	JA 1/16W
R1324	401 105 4007	JA 1/16W
R1325	401 105 4502	JA 1/16W
R1326	401 105 2003	JA 1/16W
R1327	401 105 1501	JA 1/16W
R1328	401 105 2003	JA 1/16W
R1329	401 105 2003	JA 1/16W
R1331	401 105 0900	JA 1/16W
R1332	401 105 5905	JA 1/16W
R1333	401 105 4007	JA 1/16W
R1346	401 105 6506	JA 1/16W
R1355	401 037 5103	JA 1/10W
R1359	401 105 5905	JA 1/16W
R1360	401 105 4502	JA 1/16W
R1406	401 105 0504	JA 1/16W
R1413	401 105 6001	JA 1/16W
R1416	401 105 2003	JA 1/16W
R1417	401 105 1006	JA 1/16W
R1419	401 105 4106	JA 1/16W
R1421	401 166 9706	DU 1/16W
R1422	401 105 7305	JA 1/16W
R1423	401 167 0504	DU 1/16W
R1424	401 105 5301	JA 1/16W
R1426	401 105 1600	JA 1/16W
R1428	401 105 5301	JA 1/16W
R1429	401 105 1501	JA 1/16W
R1430	401 105 0603	JA 1/16W
R1433	401 105 0603	JA 1/16W
R1437	401 166 8105	DU 1/16W
R1438	401 105 7909	ZA 1/16W
R1439	401 105 5301	JA 1/16W
R1440	401 105 7909	ZA 1/16W
R1441	401 105 7909	ZA 1/16W
R1442	401 038 6703	JA 1/10W
R1443	401 105 0504	JA 1/16W
R1444	401 113 6208	JA 1/16W
R1445	401 038 2507	JA 1/10W
R1447	401 105 0603	JA 1/16W
R1448	401 105 1501	JA 1/16W
R1450	401 113 6703	JA 1/16W
R1465	401 105 0603	JA 1/16W
R1466	401 105 7305	JA 1/16W
R1467	401 105 0504	JA 1/16W
R1468	401 167 0504	DU 1/16W
R1469	401 167 0504	DU 1/16W
R1475	401 113 6109	JA 1/16W
R1476	401 105 2003	JA 1/16W
R1477	401 105 2805	JA 1/16W
R1492	401 105 7909	ZA 1/16W
R1605	401 105 2904	JA 1/16W
R1607	401 105 3406	JA 1/16W
R1608	401 105 4007	JA 1/16W
R1609	401 105 4205	JA 1/16W
R1610	401 105 0702	JA 1/16W
R1611	401 105 4304	JA 1/16W
R1612	401 105 3000	JA 1/16W
R1613	401 105 2706	JA 1/16W
R1617	401 105 2003	JA 1/16W
R1618	401 113 5706	JA 1/16W
R1619	401 105 1501	JA 1/16W
R1620	401 105 4106	JA 1/16W
R1623	401 098 7603	JA 1/10W
R1624	401 105 7909	ZA 1/16W
R1625	401 105 5202	JA 1/16W
R1626	401 105 0603	JA 1/16W
R1627	401 105 0603	JA 1/16W
R1628	401 105 7404	JA 1/16W
R1629	401 105 0603	JA 1/16W
R1630	401 105 7909	ZA 1/16W
R1634	401 105 7909	ZA 1/16W
R1801	401 105 0306	JA 1/16W
R1802	401 105 3208	JA 1/16W
R1803	401 105 2706	JA 1/16W
R1804	401 105 2904	JA 1/16W
R1805	401 105 4205	JA 1/16W
R1806	401 038 6703	JA 1/10W
R1901	401 038 2507	JA 1/10W
R1902	401 038 2507	JA 1/10W
R1903	401 105 2003	JA 1/16W
R1904	401 113 5300	JA 1/16W
R1905	401 166 2905	DU 1/16W
R1906	401 167 1402	DU 1/16W
R1907	401 167 0108	DU 1/16W
R1908	401 105 7909	ZA 1/16W
R1910	401 166 9904	DU 1/16W
R1911	401 166 3209	DD 1/16W
R1912	401 166 2905	DU 1/16W
R1913	401 167 1402	DU 1/16W
R1914	401 105 5509	JA 1/16W
R1918	401 167 1402	DU 1/16W
R1919	401 167 0108	DU 1/16W
R1920	401 167 1402	DU 1/16W
R1921	401 167 0108	DU 1/16W
R1922	401 105 3406	JA 1/16W
R1923	401 105 2102	JA 1/16W
R1924	401 105 2805	JA 1/16W
R1925	401 105 0603	JA 1/16W
R1926	401 105 0603	JA 1/16W
R1927	401 167 0108	DU 1/16W
R1928	401 166 3209	DD 1/16W
R1929	401 166 7306	DU 1/16W
R1930	401 166 7306	DU 1/16W
R1931	401 166 3209	DD 1/16W
R1932	401 167 0108	DU 1/16W
R1933	401 167 0702	DU 1/16W
R1934	401 167 0900	DU 1/16W
R1935	401 105 0603	JA 1/16W
R1936	401 105 2201	JA 1/16W
R1937	401 105 7909	ZA 1/16W
R1939	401 105 7909	ZA 1/16W
R1941	401 105 4106	JA 1/16W
R1944	401 105 7909	ZA 1/16W
R1945	401 166 6507	DU 1/16W
R1946	401 105 1105	JA 1/16W
R1947	401 105 1105	JA 1/16W
R1948	401 105 2706	JA 1/16W
R1949	401 105 4106	JA 1/16W
R1950	401 105 8203	JA 1/16W
R1989	401 105 7909	ZA 1/16W
R1995	401 105 7909	ZA 1/16W
R1997	401 038 2507	JA 1/10W
R1998	401 105 0405	JA 1/16W
R1999	401 105 5202	JA 1/16W
R2802	401 105 7909	ZA 1/16W
R2806	401 105 7909	ZA 1/16W
R2824	401 105 6605	JA 1/16W
R3101	401 105 0603	JA 1/16W
R3201	401 105 4106	JA 1/16W
R3202	401 105 5509	JA 1/16W
R3203	401 105 4700	JA 1/16W
R3204	401 105 5509	JA 1/16W
R3205	401 105 1204	JA 1/16W
R3206	401 105 0603	JA 1/16W
R3207	401 105 3901	JA 1/16W
R3208	401 105 5301	JA 1/16W
R3209	401 105 4106	JA 1/16W
R3211	401 105 0603	JA 1/16W
R3213	401 105 0603	JA 1/16W
R3215	401 105 4106	JA 1/16W
R3216	401 105 0603	JA 1/16W
R3217	401 105 0603	JA 1/16W
R3301	401 105 0603	JA 1/16W
R3302	401 105 0603	JA 1/16W
R3303	401 105 5400	JA 1/16W
R3304	401 105 8104	JA 1/16W
R3305	401 105 5400	JA 1/16W
R3306	401 105 5400	JA 1/16W
R3307	401 038 0602	JA 1/10W
R3308	401 037 5202	JA 1/10W
R3309	401 105 0702	JA 1/16W
R3351	401 105 5202	JA 1/16W
R3352	401 112 8005	JA 1/16W
R3355	401 105 7909	ZA 1/16W
R3401	401 105 0504	JA 1/16W
R3402	401 105 0702	JA 1/16W

LOCATION	PARTS No.	DESCRIPTION
R3502	401 105 0504	JA 1/16W
R3503	401 105 0504	JA 1/16W
R3504	401 105 0702	JA 1/16W
R3505	401 105 0603	JA 1/16W
R3506	401 105 0702	JA 1/16W
R3508	401 105 0702	JA 1/16W
R3509	401 105 0603	JA 1/16W
R3511	401 105 7909	ZA 1/16W
R3512	401 105 8005	JA 1/16W
R3513	401 105 0504	JA 1/16W
R3514	401 114 0908	JA 1/16W
R3515	401 105 7909	ZA 1/16W
R3516	401 105 0504	JA 1/16W
R3517	401 105 7909	ZA 1/16W
R3519	401 105 7909	ZA 1/16W
R3521	401 167 2508	DD 1/16W
R3522	401 105 1600	JA 1/16W
R3523	401 167 2508	DD 1/16W
R3524	401 105 3505	JA 1/16W
R3525	401 105 0603	JA 1/16W
R3526	401 105 5400	JA 1/16W
R3527	401 105 0702	JA 1/16W
R3530	401 105 0603	JA 1/16W
R3531	401 105 0603	JA 1/16W
R3532	401 105 0702	JA 1/16W
R3533	401 105 0504	JA 1/16W
R3534	401 105 0603	JA 1/16W
R3535	401 105 0603	JA 1/16W
R3536	401 105 0603	JA 1/16W
R3551	401 105 0702	JA 1/16W
R3552	401 105 0702	JA 1/16W
R3553	401 105 5301	JA 1/16W
R3571	401 105 0504	JA 1/16W
R3572	401 105 0504	JA 1/16W
R3573	401 105 5400	JA 1/16W
R3575	401 105 0603	JA 1/16W
R3576	401 105 0603	JA 1/16W
R3596	401 105 5400	JA 1/16W
R3601	401 105 2904	JA 1/16W
R3602	401 158 4108	JA 1/16W
R3603	401 158 4108	JA 1/16W
R3604	401 158 4108	JA 1/16W
R3605	401 105 4700	JA 1/16W
R3606	401 105 0702	JA 1/16W
R3607	401 105 0504	JA 1/16W
R3608	401 105 4106	JA 1/16W
R3609	401 105 2003	JA 1/16W
R3610	401 105 7909	ZA 1/16W
R3751	401 105 3307	JA 1/16W
R3752	401 105 0603	JA 1/16W
R3753	401 105 0405	JA 1/16W
R3801	401 105 0702	JA 1/16W
R3802	401 105 0603	JA 1/16W
R3803	401 105 8005	JA 1/16W
R3804	401 105 1600	JA 1/16W
R3805	401 110 8601	JA 1/10W
R3806	401 110 8601	JA 1/10W
R3807	401 105 0603	JA 1/16W
R3808	401 105 0603	JA 1/16W
R3809	401 105 4601	JA 1/16W
R3816	401 105 5103	JA 1/16W
R3817	401 105 5103	JA 1/16W
R3901	401 105 0504	JA 1/16W
R3902	401 105 4601	JA 1/16W
R3905	401 105 5905	JA 1/16W
R3906	401 167 0306	DU 1/16W
R3907	401 167 0306	DU 1/16W
R3908	401 105 0702	JA 1/16W

COMPL,PWB,CP-1(VM-EX370P ONLY)

COMPL.No. 636 046 6975

(CAPACITORS)

LOCATION	PARTS No.	DESCRIPTION
C0701	403 193 7601	M 6.3V
OR	403 038 6707	M 6.3V
C0703	403 022 8205	J 50V
OR	403 023 0802	J 50V
OR	403 023 0109	J 50V
C0705	403 028 4102	J 50V
OR	403 028 6908	J 50V
OR	403 028 6007	J 50V
C0706	403 026 2803	J 50V
OR	403 115 8105	J 50V
OR	403 108 8600	J 50V
C0708	403 162 3900	M 4V
OR	403 279 0205	M 4V
C0709	403 020 0409	J 50V
OR	403 020 2106	J 50V
OR	403 020 1604	J 50V
C0710	403 162 3900	M 4V
OR	403 279 0205	M 4V
C0711	403 258 4200	M 6.3V
OR	403 277 5400	M 6.3V
C0714	403 020 0409	J 50V
OR	403 020 2106	J 50V
OR	403 020 1604	J 50V
C0715	403 028 4102	J 50V
OR	403 028 6908	J 50V
OR	403 028 6007	J 50V
C0716	403 014 9203	J 50V
OR	403 116 0009	J 50V
OR	403 108 9102	J 50V
C0717	403 008 7406	D 50V
OR	403 008 9905	D 50V
OR	403 008 9202	D 50V
C0718	403 020 0409	J 50V
OR	403 020 2106	J 50V
OR	403 020 1604	J 50V
C0719	403 022 8205	J 50V
OR	403 023 0802	J 50V
OR	403 023 0109	J 50V
C0720	403 030 6903	J 50V
OR	403 117 5508	J 50V
OR	403 108 8709	J 50V
C0721	403 069 1702	K 50V
OR	403 069 2204	K 50V
OR	403 069 2105	K 50V
C0724	403 009 5708	J 50V
OR	403 009 7504	J 50V
OR	403 009 7009	J 50V
C1001	403 018 7403	J 50V
OR	403 116 0702	J 50V
OR	403 108 9201	J 50V
C1002	403 258 4200	M 6.3V
OR	403 277 5400	M 6.3V
C1004	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C1005	403 248 9703	M 16V
OR	403 268 6508	M 16V
C1006	403 248 9703	M 16V
OR	403 268 6508	M 16V
C1007	403 285 4303	M 16V
OR	403 091 0407	M 16V
C1008	403 285 3504	M 6.3V
OR	403 114 5600	M 6.3V
C1009	403 248 9703	M 16V
OR	403 268 6508	M 16V
C1010	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C1011	403 258 4200	M 6.3V
OR	403 277 5400	M 6.3V
C1012	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C1013	403 248 9703	M 16V
OR	403 268 6508	M 16V
C1014	403 018 7403	J 50V
OR	403 116 0702	J 50V
OR	403 108 9201	J 50V
C1015	403 236 0200	Z 25V
OR	403 207 0505	Z 16V
OR	403 278 9506	Z 16V
C1016	403 024 7107	J 50V
OR	403 228 9907	J 50V
OR	403 153 2400	J 50V
C1017	403 023 4404	J 50V
OR	403 023 5500	J 50V
OR	403 023 5203	J 50V
C1020	403 026 2803	J 50V
OR	403 115 8105	J 50V
C1020	403 108 8600	J 50V
C1023	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C1027	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C1028	403 069 1702	K 50V
OR	403 069 2204	K 50V
OR	403 069 2105	K 50V
C1029	403 072 1607	M 50V
OR	403 116 7800	K 50V
OR	403 108 8303	K 50V
C1030	403 285 4600	M 20V
OR	403 091 6706	M 20V
C1031	403 075 0706	K 50V
OR	403 075 1208	K 50V
OR	403 075 1109	K 50V
C1032	403 285 4303	M 16V
OR	403 091 0407	M 16V
C1033	403 236 0200	Z 25V
OR	403 207 0505	Z 16V
OR	403 278 9506	Z 16V
C1034	403 212 1603	Z 25V
OR	403 278 9803	Z 25V
OR	403 176 3309	Z 25V
C1035	403 009 5708	J 50V
OR	403 009 7504	J 50V
OR	403 009 7009	J 50V
C1037	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C1038	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C1039	403 193 7601	M 6.3V
OR	403 038 6707	M 6.3V
C1040	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C1041	403 248 9703	M 16V
OR	403 268 6508	M 16V
C1042	403 069 1702	K 50V
OR	403 069 2204	K 50V
OR	403 069 2105	K 50V
C1043	403 023 4404	J 50V
OR	403 023 5500	J 50V
OR	403 023 5203	J 50V
C1044	403 069 1702	K 50V
OR	403 069 2204	K 50V
OR	403 069 2105	K 50V
C1046	403 258 4200	M 6.3V
OR	403 277 5400	M 6.3V
C1050	403 258 4200	M 6.3V
OR	403 277 5400	M 6.3V
C1051	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C1052	403 031 5608	C 50V
OR	403 032 1104	D 50V
OR	403 031 7008	C 50V
C1053	403 069 1702	K 50V
OR	403 069 2204	K 50V
OR	403 069 2105	K 50V
C1104	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C1105	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C1106	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C1107	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C1108	403 069 1702	K 50V
OR	403 069 2204	K 50V
OR	403 069 2105	K 50V
C1109	403 069 1702	K 50V
OR	403 069 2204	K 50V
C1109	403 069 2105	K 50V
C1111	403 011 4904	J 50V
OR	403 114 1701	J 50V
OR	403 108 8907	J 50V
C1112	403 009 5708	J 50V
OR	403 009 7504	J 50V
OR	403 009 7009	J 50V
C1113	403 020 0409	J 50V
OR	403 020 2106	J 50V
OR	403 020 1604	J 50V
C1114	403 018 0503	J 50V
OR	403 018 3207	J 50V
OR	403 018 2408	J 50V
C1115	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C1116	403 020 0409	J 50V
OR	403 020 2106	J 50V
OR	403 020 1604	J 50V
C1117	403 012 6808	J 50V
OR	403 012 9007	J 50V
OR	403 012 8406	J 50V
C1118	403 026 2803	J 50V
OR	403 115 8105	J 50V
OR	403 108 8600	J 50V
C1119	403 009 5708	J 50V
OR	403 009 7504	J 50V
OR	403 009 7009	J 50V
C1120	403 026 2803	J 50V
OR	403 115 8105	J 50V
OR	403 108 8600	J 50V
C1121	403 024 2102	J 50V
OR	403 024 4205	J 50V
OR	403 024 3505	J 50V
C1122	403 008 7406	D 50V
OR	403 008 9905	D 50V
OR	403 008 9202	D 50V
C1123	403 008 7406	D 50V
OR	403 008 9905	D 50V
OR	403 008 9202	D 50V
C1124	403 030 6903	J 50V
OR	403 117 5508	J 50V
OR	403 108 8709	J 50V
C1125	403 285 3504	M 6.3V
OR	403 114 5600	M 6.3V
C1126	403 285 3504	M 6.3V
OR	403 114 5600	M 6.3V
C1301	403 071 8102	K 50V
OR	403 071 8706	K 50V
OR	403 071 8508	K 50V
C1302	403 023 4404	J 50V
OR	403 023 5500	J 50V
OR	403 023 5203	J 50V
C1303	403 014 3409	J 50V
OR	403 014 5403	J 50V
OR	403 014 4802	J 50V
C1304	403 010 5001	J 50V
OR	403 278 9902	J 50V
OR	403 153 2202	J 50V
C1307	403 032 2309	J 50V
OR	403 278 9407	J 50V
OR	403 153 2103	J 50V
C1308	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C1310	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C1311	403 012 6808	J 50V
OR	403 012 9007	J 50V
OR	403 012 8406	J 50V
C1312	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C1313	403 071 8102	K 50V
OR	403 071 8706	K 50V
OR	403 071 8508	K 50V
C1314	403 027 1201	C 50V
OR	403 027 3700	C 50V
OR	403 027 2901	C 50V
C1317	403 018 0503	J 50V

LOCATION	PARTS No.	DESCRIPTION	
C1317	403 018 3207	J	50V
OR	403 018 2408	J	50V
C1318	403 022 8205	J	50V
OR	403 023 0802	J	50V
OR	403 023 0109	J	50V
C1319	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1320	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1321	403 032 2309	J	50V
OR	403 278 9407	J	50V
OR	403 153 2103	J	50V
C1322	403 020 5503	J	50V
OR	403 210 0806	J	50V
OR	403 153 2301	J	50V
C1323	403 023 8105	J	50V
OR	403 115 7504	J	50V
OR	403 115 7603	J	50V
C1324	403 020 5503	J	50V
OR	403 210 0806	J	50V
OR	403 153 2301	J	50V
C1410	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1411	403 008 7406	D	50V
OR	403 008 9905	D	50V
OR	403 008 9202	D	50V
C1412	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1414	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1421	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1430	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1602	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1603	403 010 8507	J	50V
OR	403 011 0708	J	50V
OR	403 011 0104	J	50V
C1604	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1605	403 020 0409	J	50V
OR	403 020 2106	J	50V
OR	403 020 1604	J	50V
C1607	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1608	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1610	403 028 4102	J	50V
OR	403 028 6908	J	50V
OR	403 028 6007	J	50V
C1611	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C1612	403 285 3108	M	4V
OR	403 089 6206	M	4V
C1613	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1614	403 010 5001	J	50V
OR	403 278 9902	J	50V
OR	403 153 2202	J	50V
C1615	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1618	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1801	403 009 5708	J	50V
OR	403 009 7504	J	50V
C1801	403 009 7009	J	50V
C1802	403 013 3004	J	50V
OR	403 115 9607	J	50V
OR	403 108 9003	J	50V
C1803	403 013 3004	J	50V
OR	403 115 9607	J	50V
OR	403 108 9003	J	50V
C1804	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1805	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1901	403 285 3702	M	6.3V
OR	403 279 9000	M	6.3V
C1902	403 285 3702	M	6.3V
OR	403 279 9000	M	6.3V
C1903	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1904	403 285 3702	M	6.3V
OR	403 279 9000	M	6.3V
C1905	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1906	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1907	403 073 9107	K	50V
OR	403 116 7107	K	50V
C1909	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1911	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1912	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1913	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C1914	403 072 1607	M	50V
OR	403 116 7800	K	50V
OR	403 108 8303	K	50V
C1915	403 072 1607	M	50V
OR	403 116 7800	K	50V
OR	403 108 8303	K	50V
C1916	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C1917	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1919	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1920	403 285 3702	M	6.3V
OR	403 279 9000	M	6.3V
C1922	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1924	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1925	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1926	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1929	403 011 4904	J	50V
OR	403 114 1701	J	50V
OR	403 108 8907	J	50V
C1930	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1999	403 285 6901	M	6.3V
OR	403 274 0903	M	6.3V
C2801	403 069 1702	K	50V
OR	403 069 2204	K	50V
C2801	403 069 2105	K	50V
C3201	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C3202	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3203	403 071 8102	K	50V
OR	403 071 8706	K	50V
OR	403 071 8508	K	50V
C3204	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3205	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C3206	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C3207	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3208	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C3209	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C3211	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C3216	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3351	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3401	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3402	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3403	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C3404	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3405	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3406	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3501	403 285 3603	M	6.3V
OR	403 275 7406	M	6.3V
C3502	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3503	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3504	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3505	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C3506	403 020 0409	J	50V
OR	403 020 2106	J	50V
OR	403 020 1604	J	50V
C3507	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C3509	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C3510	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C3513	403 018 0503	J	50V
OR	403 018 3207	J	50V
C3513	403 018 2408	J	50V
C3516	403 026 7501	J	50V
OR	403 133 9009	J	50V
OR	403 108 9300	J	50V
C3517	403 026 7501	J	50V
OR	403 133 9009	J	50V
OR	403 108 9300	J	50V
C3551	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3552	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3571	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3572	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3573	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3576	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3577	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3578	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3581	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3582	403 071 8102	K	50V
OR	403 071 8706	K	50V
OR	403 071 8508	K	50V
C3583	403 070 9803	K	50V
OR	403 116 7602	K	50V
OR	403 071 0205	K	50V
C3584	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C3585	403 026 7501	J	50V
OR	403 133 9009	J	50V
OR	403 108 9300	J	50V
C3586	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C3588	403 072 1607	M	50V
OR	403 116 7800	K	50V
OR	403 108 8303	K	50V
C3602	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3603	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3604	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3606	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3607	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3608	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3751	403 068 5107	Z	25V
OR	403 257 6700	Z	25V
OR	403 109 8302	Z	50V
C3753	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C3754	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C3801	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V

LOCATION	PARTS No.	DESCRIPTION
C3802	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3803	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C3804	403 073 1200	K 50V
OR	403 220 5600	K 50V
OR	403 153 4008	K 50V
C3805	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3806	403 073 0005	K 50V
OR	403 116 6902	K 50V
OR	403 108 7504	K 50V
C3807	403 068 5107	Z 25V
OR	403 257 6700	Z 25V
OR	403 109 8302	Z 50V
C3808	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3809	403 072 1607	M 50V
OR	403 116 7800	K 50V
OR	403 108 8303	K 50V
C3810	403 072 1607	M 50V
OR	403 116 7800	K 50V
OR	403 108 8303	K 50V
C3811	403 070 8806	K 50V
OR	403 107 0209	K 50V
C3812	403 070 8806	K 50V
OR	403 107 0209	K 50V
C3813	403 070 8806	K 50V
OR	403 107 0209	K 50V
C3814	403 073 1200	K 50V
OR	403 220 5600	K 50V
OR	403 153 4008	K 50V
C3815	403 073 1200	K 50V
OR	403 220 5600	K 50V
OR	403 153 4008	K 50V
C3816	403 073 1200	K 50V
OR	403 220 5600	K 50V
OR	403 153 4008	K 50V
C3817	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3818	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3819	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C3820	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C3901	403 258 4200	M 6.3V
OR	403 277 5400	M 6.3V
C3902	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C3903	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C3904	403 009 5708	J 50V
OR	403 009 7504	J 50V
OR	403 009 7009	J 50V
C3905	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C3906	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C3907	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
(RESISTORS)		
R0702	401 105 7305	JA 1/16W
R0703	401 105 7305	JA 1/16W
R0704	401 105 5905	JA 1/16W
R0705	401 105 7909	ZA 1/16W
R0706	401 105 4007	JA 1/16W
R0707	401 166 3001	DU 1/16W
R0708	401 105 0603	JA 1/16W
R0709	401 166 6705	DU 1/16W
R0710	401 166 6705	DU 1/16W
R0711	401 105 3307	JA 1/16W
R0714	401 105 5905	JA 1/16W
R0715	401 166 6309	DU 1/16W
R0716	401 105 0900	JA 1/16W
R0718	401 105 4106	JA 1/16W
R0719	401 166 8600	DU 1/16W
R0720	401 105 2706	JA 1/16W
R0721	401 105 7909	ZA 1/16W
R0722	401 105 7305	JA 1/16W
R0723	401 105 0603	JA 1/16W
R0724	401 105 2706	JA 1/16W
R0725	401 105 6506	JA 1/16W
R0726	401 166 3001	DU 1/16W
R0727	401 166 6507	DU 1/16W
R0728	401 105 2706	JA 1/16W
R0729	401 105 6506	JA 1/16W
R0730	401 105 2805	JA 1/16W
R0731	401 105 5905	JA 1/16W
R0732	401 105 5905	JA 1/16W
R0733	401 105 1907	JA 1/16W
R0734	401 105 2706	JA 1/16W
R0735	401 105 5905	JA 1/16W
R0736	401 105 7909	ZA 1/16W
R0737	401 105 5905	JA 1/16W
R0739	401 105 5400	JA 1/16W
R0743	401 105 1303	JA 1/16W
R1001	401 105 2805	JA 1/16W
R1003	401 105 0504	JA 1/16W
R1004	401 105 0504	JA 1/16W
R1005	401 105 0504	JA 1/16W
R1008	401 105 0504	JA 1/16W
R1009	401 105 5400	JA 1/16W
R1010	401 105 0504	JA 1/16W
R1011	401 105 4106	JA 1/16W
R1012	401 105 5202	JA 1/16W
R1013	401 105 1006	JA 1/16W
R1014	401 105 1006	JA 1/16W
R1020	401 105 4106	JA 1/16W
R1023	401 167 0900	DU 1/16W
R1024	401 105 6001	JA 1/16W
R1025	401 105 4601	JA 1/16W
R1026	401 105 0504	JA 1/16W
R1027	401 105 2805	JA 1/16W
R1028	401 105 0603	JA 1/16W
R1029	401 105 5301	JA 1/16W
R1030	401 105 3406	JA 1/16W
R1031	401 105 7909	ZA 1/16W
R1032	401 105 2102	JA 1/16W
R1033	401 105 7909	ZA 1/16W
R1034	401 105 6605	JA 1/16W
R1035	401 105 4700	JA 1/16W
R1036	401 105 4403	JA 1/16W
R1037	401 166 8105	DU 1/16W
R1038	401 166 7900	DU 1/16W
R1039	401 166 5302	DC 1/16W
R1041	401 105 5202	JA 1/16W
R1042	401 105 7404	JA 1/16W
R1043	401 105 1709	JA 1/16W
R1044	401 105 2805	JA 1/16W
R1051	401 098 7603	JA 1/10W
R1052	401 098 7603	JA 1/10W
R1054	401 105 2102	JA 1/16W
R1055	401 105 3406	JA 1/16W
R1056	401 105 7909	ZA 1/16W
R1058	401 105 7909	ZA 1/16W
R1060	401 098 7603	JA 1/10W
R1061	401 105 5400	JA 1/16W
R1062	401 105 5400	JA 1/16W
R1068	401 114 0502	JA 1/16W
R1069	401 105 4304	JA 1/16W
R1072	401 105 7404	JA 1/16W
R1073	401 105 4700	JA 1/16W
R1076	401 105 0603	JA 1/16W
R1077	401 105 0603	JA 1/16W
R1078	401 105 2003	JA 1/16W
R1079	401 105 7404	JA 1/16W
R1080	401 105 5301	JA 1/16W
R1101	401 098 7603	JA 1/10W
R1103	401 105 7909	ZA 1/16W
R1105	401 105 0900	JA 1/16W
R1106	401 105 7503	JA 1/16W
R1107	401 105 6100	JA 1/16W
R1108	401 105 2003	JA 1/16W
R1109	401 105 0504	JA 1/16W
R1110	401 105 1501	JA 1/16W
R1111	401 105 5905	JA 1/16W
R1112	401 105 7305	JA 1/16W
R1113	401 105 6506	JA 1/16W
R1114	401 113 6109	JA 1/16W
R1116	401 105 7909	ZA 1/16W
R1117	401 105 1501	JA 1/16W
R1118	401 105 1006	JA 1/16W
R1119	401 105 5905	JA 1/16W
R1120	401 105 2805	JA 1/16W
R1121	401 105 7305	JA 1/16W
R1122	401 105 0504	JA 1/16W
R1123	401 105 5905	JA 1/16W
R1124	401 105 0504	JA 1/16W
R1126	401 105 7909	ZA 1/16W
R1127	401 105 4205	JA 1/16W
R1128	401 105 2904	JA 1/16W
R1129	401 105 4205	JA 1/16W
R1130	401 105 2904	JA 1/16W
R1301	401 105 5905	JA 1/16W
R1302	401 105 2003	JA 1/16W
R1304	401 105 1501	JA 1/16W
R1306	401 105 6605	JA 1/16W
R1307	401 105 5905	JA 1/16W
R1312	401 105 0306	JA 1/16W
R1313	401 105 5905	JA 1/16W
R1314	401 105 7909	ZA 1/16W
R1315	401 105 5905	JA 1/16W
R1317	401 105 7909	ZA 1/16W
R1319	401 105 1501	JA 1/16W
R1320	401 105 0603	JA 1/16W
R1321	401 105 1105	JA 1/16W
R1322	401 105 7305	JA 1/16W
R1324	401 105 4007	JA 1/16W
R1325	401 105 4502	JA 1/16W
R1326	401 105 2003	JA 1/16W
R1327	401 105 1501	JA 1/16W
R1328	401 105 2003	JA 1/16W
R1329	401 105 2003	JA 1/16W
R1331	401 105 0900	JA 1/16W
R1332	401 105 5905	JA 1/16W
R1333	401 105 4007	JA 1/16W
R1346	401 105 6506	JA 1/16W
R1355	401 037 5103	JA 1/10W
R1359	401 105 5905	JA 1/16W
R1360	401 105 4502	JA 1/16W
R1406	401 105 0504	JA 1/16W
R1413	401 105 6001	JA 1/16W
R1416	401 105 2003	JA 1/16W
R1417	401 105 1006	JA 1/16W
R1419	401 105 4106	JA 1/16W
R1421	401 166 9508	DU 1/16W
R1422	401 105 7305	JA 1/16W
R1423	401 167 0702	DU 1/16W
R1424	401 105 5301	JA 1/16W
R1426	401 105 1600	JA 1/16W
R1428	401 105 5301	JA 1/16W
R1429	401 105 1501	JA 1/16W
R1430	401 105 0603	JA 1/16W
R1433	401 105 0603	JA 1/16W
R1437	401 166 3001	DU 1/16W
R1438	401 105 7909	ZA 1/16W
R1439	401 105 5301	JA 1/16W
R1440	401 105 7909	ZA 1/16W
R1441	401 105 7909	ZA 1/16W
R1442	401 038 6703	JA 1/10W
R1443	401 105 0504	JA 1/16W
R1444	401 113 6208	JA 1/16W
R1445	401 038 2507	JA 1/10W
R1447	401 105 0603	JA 1/16W
R1448	401 105 1501	JA 1/16W
R1450	401 113 6703	JA 1/16W
R1465	401 105 0603	JA 1/16W
R1466	401 105 7305	JA 1/16W
R1467	401 105 0504	JA 1/16W
R1468	401 167 0504	DU 1/16W
R1469	401 167 0504	DU 1/16W
R1475	401 113 6109	JA 1/16W
R1476	401 105 2003	JA 1/16W
R1477	401 105 2805	JA 1/16W
R1492	401 105 7909	ZA 1/16W
R1605	401 105 2904	JA 1/16W
R1607	401 105 3406	JA 1/16W
R1608	401 105 4007	JA 1/16W
R1609	401 105 4205	JA 1/16W
R1610	401 105 0702	JA 1/16W
R1611	401 105 4304	JA 1/16W
R1612	401 105 3000	JA 1/16W
R1613	401 105 2706	JA 1/16W
R1617	401 105 2003	JA 1/16W
R1618	401 113 5706	JA 1/16W
R1619	401 105 1501	JA 1/16W
R1620	401 105 4106	JA 1/16W
R1623	401 098 7603	JA 1/10W
R1624	401 105 7909	ZA 1/16W
R1625	401 105 5202	JA 1/16W
R1626	401 105 0603	JA 1/16W
R1627	401 105 0603	JA 1/16W
R1628	401 105 7404	JA 1/16W
R1629	401 105 0603	JA 1/16W
R1630	401 105 7909	ZA 1/16W
R1634	401 105 7909	ZA 1/16W
R1801	401 105 0306	JA 1/16W
R1802	401 105 3208	JA 1/16W
R1803	401 105 2706	JA 1/16W
R1804	401 105 2904	JA 1/16W
R1805	401 105 4205	JA 1/16W
R1806	401 038 6703	JA 1/10W
R1901	401 038 2507	JA 1/10W
R1902	401 038 2507	JA 1/10W
R1903	401 105 2003	JA 1/16W
R1904	401 113 5300	JA 1/16W
R1905	401 166 2905	DU 1/16W
R1906	401 167 1402	DU 1/16W
R1907	401 167 0108	DU 1/16W
R1908	401 105 7909	ZA 1/16W
R1910	401 166 9904	DU 1/16W
R1911	401 166 3209	DD 1/16W
R1912	401 166 2905	DU 1/16W
R1913	401 167 1402	DU 1/16W
R1914	401 105 5509	JA 1/16W
R1918	401 167 1402	DU 1/16W
R1919	401 167 0108	DU 1/16W
R1920	401 167 1402	DU 1/16W
R1921	401 167 0108	DU 1/16W
R1922	401 105 3406	JA 1/16W
R1923	401 105 2102	JA 1/16W
R1924	401 105 2805	JA 1/16W
R1925	401 105 0603	JA 1/16W
R1926	401 105 0603	JA 1/16W
R1927	401 167 0108	DU 1/16W
R1928	401 166 3209	DD 1/16W
R1929	401 166 7306	DU 1/16W
R1930	401 166 7306	DU 1/16W
R1931	401 166 3209	DD 1/16W
R1932	401 167 0108	DU 1/16W
R1933	401 167 0702	DU 1/16W
R1934	401 167 0900	DU 1/16W
R1935	401 105 0603	JA 1/16W
R1936	401 105 2201	JA 1/16W
R1937	401 105 7909	ZA 1/16W
R1939	401 105 7909	ZA 1/16W
R1941	401 105 4106	JA 1/16W
R1944	401 105 7909	ZA 1/16W
R1945	401 166 6507	DU 1/16W
R1946	401 105 1105	JA 1/16W
R1947	401 105 1105	JA 1/16W
R1948	401 105 2706	JA 1/16W
R1949	401 105 4106	JA 1/16W
R1950	401 105 8203	JA 1/16W
R1989	401 105 7909	ZA 1/16W
R1995	401 105 7909	ZA 1/16W
R1997	401 038 2507	JA 1/10W
R1998	401 105 0405	JA 1/16W
R1999	401 105 5202	JA 1/16W

LOCATION	PARTS No.	DESCRIPTION
R2802	401 105 7909	ZA 1/16W
R2806	401 105 7909	ZA 1/16W
R2824	401 105 6605	JA 1/16W
R3101	401 105 0603	JA 1/16W
R3201	401 105 4106	JA 1/16W
R3202	401 105 5509	JA 1/16W
R3203	401 105 4700	JA 1/16W
R3204	401 105 5509	JA 1/16W
R3205	401 105 1204	JA 1/16W
R3206	401 105 0603	JA 1/16W
R3207	401 105 3901	JA 1/16W
R3208	401 105 5301	JA 1/16W
R3209	401 105 4106	JA 1/16W
R3211	401 105 0603	JA 1/16W
R3213	401 105 0603	JA 1/16W
R3215	401 105 4106	JA 1/16W
R3216	401 105 0603	JA 1/16W
R3217	401 105 0603	JA 1/16W
R3301	401 105 0603	JA 1/16W
R3302	401 105 0603	JA 1/16W
R3303	401 105 5400	JA 1/16W
R3304	401 105 8104	JA 1/16W
R3305	401 105 5400	JA 1/16W
R3306	401 105 5400	JA 1/16W
R3307	401 038 0602	JA 1/10W
R3308	401 037 5202	JA 1/10W
R3309	401 105 0702	JA 1/16W
R3351	401 105 5202	JA 1/16W
R3352	401 112 8005	JA 1/16W
R3355	401 105 7909	ZA 1/16W
R3401	401 105 0504	JA 1/16W
R3402	401 105 0702	JA 1/16W
R3502	401 105 0504	JA 1/16W
R3503	401 105 0504	JA 1/16W
R3504	401 105 0702	JA 1/16W
R3505	401 105 0603	JA 1/16W
R3506	401 105 0702	JA 1/16W
R3508	401 105 0702	JA 1/16W
R3509	401 105 0603	JA 1/16W
R3511	401 105 7909	ZA 1/16W
R3512	401 105 8005	JA 1/16W
R3513	401 105 0504	JA 1/16W
R3514	401 114 0908	JA 1/16W
R3515	401 105 7909	ZA 1/16W
R3516	401 105 0504	JA 1/16W
R3517	401 105 7909	ZA 1/16W
R3521	401 167 2508	DD 1/16W
R3522	401 105 1600	JA 1/16W
R3523	401 167 2508	DD 1/16W
R3524	401 105 3505	JA 1/16W
R3525	401 105 0603	JA 1/16W
R3526	401 105 5400	JA 1/16W
R3527	401 105 0702	JA 1/16W
R3530	401 105 0603	JA 1/16W
R3531	401 105 0603	JA 1/16W
R3532	401 105 0702	JA 1/16W
R3533	401 105 0504	JA 1/16W
R3534	401 105 0603	JA 1/16W
R3535	401 105 0603	JA 1/16W
R3536	401 105 0603	JA 1/16W
R3551	401 105 0702	JA 1/16W
R3552	401 105 0702	JA 1/16W
R3553	401 105 5301	JA 1/16W
R3571	401 105 0504	JA 1/16W
R3572	401 105 0504	JA 1/16W
R3573	401 105 5400	JA 1/16W
R3575	401 105 0603	JA 1/16W
R3576	401 105 0603	JA 1/16W
R3581	401 112 8005	JA 1/16W
R3582	401 105 4205	JA 1/16W
R3583	401 105 0603	JA 1/16W
R3584	401 105 0504	JA 1/16W
R3585	401 105 6407	JA 1/16W
R3586	401 105 1402	JA 1/16W
R3587	401 105 0702	JA 1/16W
R3588	401 105 8005	JA 1/16W
R3589	401 105 3406	JA 1/16W
R3590	401 105 0603	JA 1/16W
R3591	401 105 3406	JA 1/16W
R3592	401 105 0603	JA 1/16W
R3593	401 105 3000	JA 1/16W
R3594	401 105 2904	JA 1/16W
R3595	401 105 7404	JA 1/16W
R3596	401 105 5400	JA 1/16W
R3597	401 105 2706	JA 1/16W
R3601	401 105 2904	JA 1/16W
R3602	401 158 4108	JA 1/16W
R3603	401 158 4108	JA 1/16W
R3604	401 158 4108	JA 1/16W
R3605	401 105 4700	JA 1/16W
R3606	401 105 0702	JA 1/16W
R3607	401 105 0504	JA 1/16W
R3608	401 105 4106	JA 1/16W
R3609	401 105 2003	JA 1/16W
R3610	401 105 7909	ZA 1/16W
R3751	401 105 3307	JA 1/16W
R3752	401 105 0603	JA 1/16W
R3753	401 105 0405	JA 1/16W
R3801	401 105 0702	JA 1/16W
R3802	401 105 0603	JA 1/16W
R3803	401 105 8005	JA 1/16W
R3804	401 105 1600	JA 1/16W
R3805	401 110 8601	JA 1/10W
R3806	401 110 8601	JA 1/10W
R3807	401 105 0603	JA 1/16W
R3808	401 105 0603	JA 1/16W
R3809	401 105 4601	JA 1/16W
R3816	401 105 5103	JA 1/16W
R3817	401 105 5103	JA 1/16W
R3901	401 105 0504	JA 1/16W
R3902	401 105 4601	JA 1/16W
R3905	401 105 5905	JA 1/16W
R3906	401 167 0306	DU 1/16W
R3907	401 167 0306	DU 1/16W
R3908	401 105 0702	JA 1/16W

COMPL,PWB,CP-2
COMPL.No. 636 046 6227
(VM-EX220P ONLY)
COMPL.No. 636 047 0644
(VM-EX280P,VM-EX370P ONLY)

(CAPACITORS)

LOCATION	PARTS No.	DESCRIPTION
C9002	403 155 1807	K 25V
OR	403 237 8502	K 25V
OR	403 176 0100	K 25V
C9021	403 155 1807	K 25V
OR	403 237 8502	K 25V
OR	403 176 0100	K 25V
C9023	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9024	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9025	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9026	403 155 1807	K 25V
OR	403 237 8502	K 25V
OR	403 176 0100	K 25V
C9028	403 157 3601	J 50V
OR	403 235 0607	J 50V
OR	403 229 5700	J 50V
C9029	403 134 7400	Z 16V
OR	403 176 9103	Z 16V
OR	403 176 3200	Z 25V
C9031	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9032	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9034	403 157 1904	D 50V
OR	403 234 9502	D 50V
OR	403 229 4208	D 50V
C9036	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9037	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9038	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9039	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9070	403 175 0606	M 6.3V
OR	403 279 0403	M 6.3V
C9071	403 113 3805	K 50V
OR	403 224 5705	K 50V
C9072	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9073	403 113 3805	K 50V
OR	403 224 5705	K 50V
C9074	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9075	403 113 3805	K 50V
OR	403 224 5705	K 50V
C9076	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9077	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9078	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9079	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9080	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9081	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9082	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9083	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9085	403 113 3805	K 50V
OR	403 224 5705	K 50V
C9111	403 157 7609	Z 25V
OR	403 281 6400	Z 25V
C9112	403 139 7306	J 50V
OR	403 234 9809	J 50V
OR	403 229 4505	J 50V
C9114	403 134 7400	Z 16V
OR	403 176 9103	Z 16V
OR	403 176 3200	Z 25V
C9115	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9116	403 134 7400	Z 16V
OR	403 176 9103	Z 16V
OR	403 176 3200	Z 25V
C9117	403 134 7400	Z 16V
OR	403 176 9103	Z 16V
OR	403 176 3200	Z 25V
C9118	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9119	403 134 7400	Z 16V
OR	403 176 9103	Z 16V
OR	403 176 3200	Z 25V
C9120	403 113 3805	K 50V
OR	403 224 5705	K 50V
C9121	403 134 7400	Z 16V
OR	403 176 9103	Z 16V
OR	403 176 3200	Z 25V
C9122	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9123	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9130	403 134 7400	Z 16V
C9130	403 176 9103	Z 16V
OR	403 176 3200	Z 25V
C9131	403 155 1807	K 25V
OR	403 237 8502	K 25V
OR	403 176 0100	K 25V
C9132	403 155 1807	K 25V
OR	403 237 8502	K 25V
OR	403 176 0100	K 25V
C9133	403 113 3805	K 50V
OR	403 224 5705	K 50V
C9134	403 113 3805	K 50V
OR	403 224 5705	K 50V
C9137	403 157 3205	J 50V
OR	403 229 5304	J 50V
C9138	403 113 3805	K 50V
OR	403 224 5705	K 50V
C9140	403 113 3805	K 50V
OR	403 224 5705	K 50V
C9150	403 258 4200	M 6.3V
OR	403 277 5400	M 6.3V
C9151	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9153	403 113 3805	K 50V
OR	403 224 5705	K 50V
C9158	403 139 7702	D 50V
OR	403 234 9205	D 50V
OR	403 229 4000	C 50V
C9164	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9165	403 113 3805	K 50V
OR	403 224 5705	K 50V
C9166	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9169	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9170	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9191	403 207 0505	Z 16V
OR	403 278 9506	Z 16V
C9193	403 134 7400	Z 16V
OR	403 176 9103	Z 16V
OR	403 176 3200	Z 25V
C9194	403 155 1807	K 25V
OR	403 237 8502	K 25V
OR	403 176 0100	K 25V
C9196	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9197	403 248 9703	M 16V
OR	403 268 6508	M 16V
C9198	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9199	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9200	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9201	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9202	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9203	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9204	403 113 3805	K 50V
OR	403 224 5705	K 50V
C9205	403 258 4200	M 6.3V
OR	403 277 5400	M 6.3V
C9206	403 248 9703	M 16V
OR	403 268 6508	M 16V
C9207	403 164 0204	Z 25V
OR	403 279 0106	Z 25V

LOCATION	PARTS No.	DESCRIPTION
C9207	403 176 0209	Z 25V
C9208	403 113 3805	K 50V
OR	403 224 5705	K 50V
C9211	403 155 1609	J 50V
OR	403 235 0003	J 50V
OR	403 152 2906	J 50V
C9212	403 139 6903	C 50V
C9215	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9252	403 157 1904	D 50V
OR	403 234 9502	D 50V
OR	403 229 4208	D 50V
C9256	403 157 3809	J 50V
OR	403 235 0706	J 50V
OR	403 229 5908	J 50V
C9257	403 155 4204	J 50V
OR	403 234 9601	J 50V
OR	403 229 4406	J 50V
C9258	403 157 3106	J 50V
OR	403 235 0300	J 50V
OR	403 229 5205	J 50V
C9260	403 155 1609	J 50V
OR	403 235 0003	J 50V
OR	403 152 2906	J 50V
C9261	403 139 7504	J 50V
OR	403 235 0102	J 50V
OR	403 229 5007	J 50V
C9301	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9303	403 175 4505	M 6.3V
OR	403 279 0502	M 6.3V
C9304	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C9305	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9306	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C9307	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9308	403 113 4109	K 50V
OR	403 224 5804	K 50V
C9309	403 113 4109	K 50V
OR	403 224 5804	K 50V
C9310	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9311	403 172 6106	J 50V
OR	403 235 1109	J 50V
OR	403 229 6103	J 50V
C9312	403 172 6106	J 50V
OR	403 235 1109	J 50V
OR	403 229 6103	J 50V
C9313	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9314	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9315	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C9316	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C9317	403 155 1807	K 25V
OR	403 237 8502	K 25V
OR	403 176 0100	K 25V
C9318	403 155 1807	K 25V
OR	403 237 8502	K 25V
OR	403 176 0100	K 25V
C9319	403 175 4505	M 6.3V
OR	403 279 0502	M 6.3V
C9320	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V

LOCATION	PARTS No.	DESCRIPTION
C9322	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9323	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9324	403 285 3702	M 6.3V
OR	403 279 9000	M 6.3V
C9325	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C9326	403 155 1807	K 25V
OR	403 237 8502	K 25V
OR	403 176 0100	K 25V
C9330	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9331	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C9332	403 285 6802	M 6.3V
OR	403 276 7405	M 6.3V
C9333	403 285 4501	M 16V
OR	403 276 8105	M 16V
C9334	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C9335	403 155 2200	K 50V
OR	403 224 5903	K 50V
C9336	403 155 1807	K 25V
OR	403 237 8502	K 25V
OR	403 176 0100	K 25V
C9337	403 155 1807	K 25V
OR	403 237 8502	K 25V
OR	403 176 0100	K 25V
C9338	403 155 1807	K 25V
OR	403 237 8502	K 25V
OR	403 176 0100	K 25V
C9339	403 155 1807	K 25V
OR	403 237 8502	K 25V
OR	403 176 0100	K 25V
C9340	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9341	403 155 1807	K 25V
OR	403 237 8502	K 25V
OR	403 176 0100	K 25V
C9343	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9344	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9347	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9348	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9349	403 285 3504	M 6.3V
OR	403 114 5600	M 6.3V
C9350	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C9353	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C9354	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9361	403 157 2505	J 50V
OR	403 234 9908	J 50V
OR	403 229 4802	J 50V
C9362	403 157 2901	J 50V
OR	403 235 0201	J 50V
OR	403 229 5106	J 50V
C9374	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9381	403 157 7005	K 50V
OR	403 235 5503	K 50V

LOCATION	PARTS No.	DESCRIPTION
C9382	403 157 7005	K 50V
OR	403 235 5503	K 50V
C9383	403 157 3304	J 50V
OR	403 235 0409	J 50V
OR	403 229 5403	J 50V
C9391	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9392	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9393	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9394	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9396	403 169 2807	J 50V
OR	403 235 1208	J 50V
OR	403 229 6202	J 50V
C9401	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9402	403 113 4109	K 50V
OR	403 224 5804	K 50V
C9403	403 285 6604	M 16V
C9404	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C9405	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C9406	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C9407	403 215 2102	K 50V
OR	403 235 5909	K 50V
C9408	403 215 2102	K 50V
OR	403 235 5909	K 50V
C9409	403 194 2803	K 25V
C9418	403 194 2803	K 25V
C9419	403 194 2803	K 25V
C9420	403 194 2803	K 25V
C9421	403 155 2200	K 50V
OR	403 224 5903	K 50V
C9971	403 285 5003	M 25V
OR	403 276 8501	M 25V
C9972	403 285 5003	M 25V
OR	403 276 8501	M 25V
(RESISTORS)		
R9002	401 105 2102	JA 1/16W
R9003	401 105 3406	JA 1/16W
R9005	401 105 5400	JA 1/16W
R9007	401 105 2102	JA 1/16W
R9008	401 105 3406	JA 1/16W
R9009	401 105 3406	JA 1/16W
R9010	401 105 4700	JA 1/16W
R9011	401 105 3406	JA 1/16W
R9012	401 105 5400	JA 1/16W
R9013	401 105 5400	JA 1/16W
R9014	401 148 6006	JA 1/16W
R9020	401 148 6006	JA 1/16W
R9022	401 105 7909	ZA 1/16W
R9025	401 105 7503	JA 1/16W
R9026	401 105 0603	JA 1/16W
R9027	401 105 0504	JA 1/16W
R9028	401 105 2003	JA 1/16W
R9029	401 167 0504	DU 1/16W
R9030	401 167 0900	DU 1/16W
R9031	401 105 2102	JA 1/16W
R9032	401 105 1600	JA 1/16W
R9033	401 105 4106	JA 1/16W
R9034	401 105 4205	JA 1/16W
R9035	401 105 5400	JA 1/16W
R9036	401 105 0603	JA 1/16W
R9038	401 105 2102	JA 1/16W
R9039	401 105 4205	JA 1/16W
R9040	401 105 0504	JA 1/16W
R9044	401 105 3406	JA 1/16W
R9045	401 105 2904	JA 1/16W

LOCATION	PARTS No.	DESCRIPTION
R9046	401 105 1600	JA 1/16W
R9047	401 105 4700	JA 1/16W
R9048	401 105 7909	ZA 1/16W
R9050	401 105 0603	JA 1/16W
R9070	401 158 4009	JA 1/16W
R9071	401 167 0504	DU 1/16W
R9072	401 167 1204	DU 1/16W
R9073	401 105 2904	JA 1/16W
R9074	401 113 7007	JA 1/16W
R9075	401 105 2102	JA 1/16W
R9076	401 105 1600	JA 1/16W
R9077	401 105 2102	JA 1/16W
R9078	401 105 8104	JA 1/16W
R9079	401 105 8104	JA 1/16W
R9081	401 105 7909	ZA 1/16W
R9082	401 105 1600	JA 1/16W
R9083	401 105 1600	JA 1/16W
R9084	401 105 1105	JA 1/16W
R9085	401 105 3406	JA 1/16W
R9088	401 105 2904	JA 1/16W
R9089	401 105 2904	JA 1/16W
R9090	401 105 4700	JA 1/16W
R9091	401 105 1600	JA 1/16W
R9092	401 105 4205	JA 1/16W
R9096	401 105 4106	JA 1/16W
R9098	401 105 7909	ZA 1/16W
R9101	401 105 0702	JA 1/16W
R9103	401 105 7305	JA 1/16W
R9111	401 105 2706	JA 1/16W
R9112	401 105 2706	JA 1/16W
R9115	401 148 6006	JA 1/16W
R9120	401 105 7909	ZA 1/16W
R9130	401 105 0306	JA 1/16W
R9131	401 105 0405	JA 1/16W
R9132	401 105 8005	JA 1/16W
R9133	401 105 8203	JA 1/16W
R9134	401 105 0603	JA 1/16W
R9135	401 105 0702	JA 1/16W
R9136	401 105 2706	JA 1/16W
R9138	401 105 1402	JA 1/16W
R9139	401 105 0306	JA 1/16W
R9141	401 105 7909	ZA 1/16W
R9146	401 105 0504	JA 1/16W
R9148	401 105 1501	JA 1/16W
R9150	401 148 6006	JA 1/16W
R9155	401 105 2805	JA 1/16W
R9156	401 105 2805	JA 1/16W
R9157	401 105 6506	JA 1/16W
R9170	401 105 7909	ZA 1/16W
R9177	401 105 7909	ZA 1/16W
R9182	401 105 0504	JA 1/16W
R9190	401 158 4009	JA 1/16W
R9191	401 166 8709	DU 1/16W
R9192	401 105 0504	JA 1/16W
R9194	401 105 0603	JA 1/16W
R9195	401 105 3406	JA 1/16W
R9196	401 105 2706	JA 1/16W
R9197	401 105 2102	JA 1/16W
R9198	401 105 3406	JA 1/16W
R9199	401 105 3406	JA 1/16W
R9200	401 105 3208	JA 1/16W
R9201	401 105 4700	JA 1/16W
R9202	401 105 7909	ZA 1/16W
R9204	401 105 6605	JA 1/16W
R9205	401 105 4304	JA 1/16W
R9206	401 105 1105	JA 1/16W
R9207	401 105 5400	JA 1/16W
R9208	401 105 4205	JA 1/16W
R9209	401 105 1105	JA 1/16W
R9211	401 105 4601	JA 1/16W
R9216	401 105 0504	JA 1/16W
R9217	401 105 4007	JA 1/16W
R9218	401 105 4007	JA 1/16W
R9250	401 105 1501	JA 1/16W
R9256	401 105 3307	JA 1/16W
R9257	401 105 5202	JA 1/16W
R9267	401 105 0504	JA 1/16W
R9301	401 105 4700	JA 1/16W
R9302	401 105 3307	JA 1/16W
R9303	401 105 1501	JA 1/16W
R9304	401 105 2904	JA 1/16W

LOCATION	PARTS No.	DESCRIPTION
R9305	401 105 1006	JA 1/16W
R9306	401 105 0504	JA 1/16W
R9307	401 105 7909	ZA 1/16W
R9308	401 105 5905	JA 1/16W
R9309	401 105 5905	JA 1/16W
R9310	401 105 8005	JA 1/16W
R9311	401 105 7909	ZA 1/16W
R9312	401 105 2805	JA 1/16W
R9313	401 105 5905	JA 1/16W
R9314	401 105 5905	JA 1/16W
R9315	401 105 3307	JA 1/16W
R9316	401 105 0504	JA 1/16W
R9317	401 105 0504	JA 1/16W
R9318	401 105 6001	JA 1/16W
R9319	401 105 1501	JA 1/16W
R9320	401 105 1501	JA 1/16W
R9321	401 105 3307	JA 1/16W
R9322	401 105 2805	JA 1/16W
R9323	401 105 0504	JA 1/16W
R9324	401 105 5202	JA 1/16W
R9325	401 105 1501	JA 1/16W
R9326	401 105 2805	JA 1/16W
R9327	401 105 0504	JA 1/16W
R9328	401 105 6001	JA 1/16W
R9329	401 105 5202	JA 1/16W
R9330	401 105 7404	JA 1/16W
R9331	401 105 1501	JA 1/16W
R9332	401 105 4106	JA 1/16W
R9333	401 105 4106	JA 1/16W
R9334	401 105 2904	JA 1/16W
R9335	401 105 2904	JA 1/16W
R9336	401 105 6001	JA 1/16W
R9337	401 105 6001	JA 1/16W
R9338	401 105 6001	JA 1/16W
R9339	401 105 5301	JA 1/16W
R9340	401 105 7404	JA 1/16W
R9341	401 105 3307	JA 1/16W
R9342	401 105 3307	JA 1/16W
R9343	401 158 4108	JA 1/16W
R9344	401 105 3000	JA 1/16W
R9345	401 105 7909	ZA 1/16W
R9347	401 105 7909	ZA 1/16W
R9348	401 105 2805	JA 1/16W
R9351	401 105 6001	JA 1/16W
R9352	401 105 6605	JA 1/16W
R9353	401 105 0504	JA 1/16W
R9354	401 105 0504	JA 1/16W
R9356	401 105 7909	ZA 1/16W
R9361	401 105 6605	JA 1/16W
R9364	401 105 0702	JA 1/16W
R9365	401 105 0504	JA 1/16W
R9366	401 105 0504	JA 1/16W
R9368	401 105 7909	ZA 1/16W
R9369	401 105 7909	ZA 1/16W
R9370	401 105 5202	JA 1/16W
R9371	401 090 2002	JA 1/10W
R9372	401 090 2002	JA 1/10W
R9377	401 105 0702	JA 1/16W
R9378	401 105 8104	JA 1/16W
R9379	401 105 6001	JA 1/16W
R9380	401 105 3307	JA 1/16W
R9381	401 105 0504	JA 1/16W
R9382	401 105 0504	JA 1/16W
R9383	401 105 0504	JA 1/16W
R9384	401 105 0504	JA 1/16W
R9385	401 105 0504	JA 1/16W
R9388	401 105 4205	JA 1/16W
R9389	401 105 8203	JA 1/16W
R9390	401 105 0702	JA 1/16W
R9391	401 105 8203	JA 1/16W
R9392	401 105 3406	JA 1/16W
R9393	401 105 8203	JA 1/16W
R9394	401 105 3505	JA 1/16W
R9395	401 105 1709	JA 1/16W
R9396	401 105 2201	JA 1/16W
R9397	401 105 0702	JA 1/16W
R9398	401 105 4304	JA 1/16W
R9399	401 105 5400	JA 1/16W
R9402	401 105 4700	JA 1/16W
R9404	401 105 5301	JA 1/16W
R9405	401 105 5301	JA 1/16W
R9406	401 105 5301	JA 1/16W
R9408	401 105 6704	JA 1/16W
R9409	401 105 6506	JA 1/16W
R9413	401 105 0702	JA 1/16W
R9414	401 105 2102	JA 1/16W
R9415	401 105 1709	JA 1/16W
R9416	401 105 6001	JA 1/16W
R9417	401 105 1600	JA 1/16W
R9419	401 105 0603	JA 1/16W
R9421	401 105 3307	JA 1/16W
R9422	401 105 4601	JA 1/16W
R9423	401 105 5202	JA 1/16W
R9424	401 105 5905	JA 1/16W
R9425	401 105 5905	JA 1/16W
R9426	401 105 2805	JA 1/16W
R9427	401 105 0702	JA 1/16W
R9428	401 105 0702	JA 1/16W
R9429	401 105 0603	JA 1/16W
R9430	401 105 0603	JA 1/16W
R9431	401 105 1006	JA 1/16W
R9432	401 105 4601	JA 1/16W
R9433	401 105 5202	JA 1/16W
R9434	401 105 5905	JA 1/16W
R9435	401 105 5905	JA 1/16W
R9436	401 105 2805	JA 1/16W
R9437	401 105 3307	JA 1/16W
R9438	401 105 2003	JA 1/16W
R9439	401 105 0603	JA 1/16W
R9440	401 105 0603	JA 1/16W
R9441	401 105 0504	JA 1/16W
R9442	401 105 0504	JA 1/16W
R9443	401 105 0504	JA 1/16W
R9456	401 105 0702	JA 1/16W
R9457	401 105 5400	JA 1/16W
R9463	401 105 0603	JA 1/16W
R9464	401 105 0702	JA 1/16W
R9465	401 105 0603	JA 1/16W
R9466	401 105 0603	JA 1/16W
R9467	401 105 0702	JA 1/16W
R9468	401 105 0702	JA 1/16W
R9469	401 105 0504	JA 1/16W
R9470	401 105 0504	JA 1/16W
R9471	401 105 4106	JA 1/16W
R9472	401 105 0603	JA 1/16W
R9473	401 105 0603	JA 1/16W
R9474	401 105 8104	JA 1/16W
R9476	401 105 0603	JA 1/16W
R9477	401 105 1105	JA 1/16W
R9479	401 105 0702	JA 1/16W
R9482	401 105 0603	JA 1/16W
R9484	401 105 0603	JA 1/16W
R9492	401 105 7909	ZA 1/16W
R9971	401 177 2604	JA 1/16W
R9972	401 177 2604	JA 1/16W
R9991	401 105 7909	ZA 1/16W
R9999	401 105 7909	ZA 1/16W

COMPL,PWB,PW-1

COMPL.No. 636 046 5107

(VM-EX220P ONLY)

COMPL.No. 636 046 5947

(VM-EX280P,VM-EX370P ONLY)

(CAPACITORS)

LOCATION	PARTS No.	DESCRIPTION
C3001	403 121 2302	M 10V
C3002	403 094 2408	M 16V
C3003	403 093 4106	M 6.3V
C3004	403 285 6901	M 6.3V
OR	403 274 0903	M 6.3V
C3005	403 265 5108	M 6.3V
C3006	403 265 5405	M 10V
C3007	403 265 5702	M 16V
C3008	403 280 6500	M 10V
C3009	403 280 6500	M 10V
C3010	403 280 6500	M 10V
C3012	403 176 3200	Z 25V
C3013	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C3014	403 265 5801	M 16V
C3015	403 280 6500	M 10V
C3016	403 280 6500	M 10V
C3017	403 009 5708	J 50V
OR	403 009 7504	J 50V
OR	403 009 7009	J 50V
C3018	403 075 4803	K 50V
OR	403 108 7207	K 50V
C3019	403 071 8102	K 50V
OR	403 071 8706	K 50V
OR	403 071 8508	K 50V
C3020	403 294 2703	J 50V
C3021	403 071 8102	K 50V
OR	403 071 8706	K 50V
OR	403 071 8508	K 50V
C3023	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3024	403 071 8102	K 50V
OR	403 071 8706	K 50V
OR	403 071 8508	K 50V
C3025	403 069 1702	K 50V
OR	403 069 2204	K 50V
OR	403 069 2105	K 50V
C3026	403 009 5708	J 50V
OR	403 009 7504	J 50V
OR	403 009 7009	J 50V
C3027	403 009 5708	J 50V
OR	403 009 7504	J 50V
OR	403 009 7009	J 50V
C3028	403 013 3004	J 50V
OR	403 115 9607	J 50V
OR	403 108 9003	J 50V
C3029	403 013 3004	J 50V
OR	403 115 9607	J 50V
OR	403 108 9003	J 50V
C3030	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3031	403 071 8102	K 50V
OR	403 071 8706	K 50V
OR	403 071 8508	K 50V
C3032	403 280 6500	M 10V

(RESISTORS)

LOCATION	PARTS No.	DESCRIPTION
R3001	401 190 2308	JG 2W
R3002	401 105 6605	JA 1/16W
R3003	401 105 3406	JA 1/16W
R3004	401 105 5202	JA 1/16W
R3005	401 167 0306	DU 1/16W
R3006	401 105 3307	JA 1/16W
R3007	401 113 6406	JA 1/16W
R3008	401 166 3209	DD 1/16W
R3009	401 166 3209	DD 1/16W
R3010	401 167 3505	DD 1/16W
R3012	401 229 7700	DD 1/10W
R3013	401 167 3208	DD 1/16W
R3014	401 113 5409	JA 1/16W
R3015	401 105 4502	JA 1/16W
R3016	401 105 0504	JA 1/16W
R3017	401 167 0504	DU 1/16W
R3018	401 105 5301	JA 1/16W
R3019	401 166 9706	DU 1/16W
R3020	401 113 6307	JA 1/16W
R3021	401 105 0603	JA 1/16W
R3022	401 105 2805	JA 1/16W
R3023	401 105 5400	JA 1/16W
R3024	401 105 6506	JA 1/16W
R3025	401 105 5400	JA 1/16W
R3026	401 105 2805	JA 1/16W
R3027	401 105 6506	JA 1/16W
R3028	401 105 0603	JA 1/16W
R3029	401 105 0603	JA 1/16W

COMPL,PWB,VF-1

COMPL.No. 636 045 6235

(VM-EX220P,VM-EX370P ONLY)

(CAPACITORS)

LOCATION	PARTS No.	DESCRIPTION
C9703	403 203 1407	M 16V
OR	403 091 0407	M 16V
OR	403 285 4303	M 16V
C9704	403 070 8806	K 50V
C9705	403 134 8100	M 6.3V
C9706	403 207 0307	Z 16V
C9707	403 065 8002	J 63V
C9708	403 026 2902	J 50V
C9709	403 070 2606	Z 50V
C9711	403 068 0409	Z 25V
C9712	403 028 9800	J 50V
C9713	403 135 3807	M 6.3V
C9716	403 167 6203	K 100V
C9717	403 109 6407	M 50V
C9718	403 105 9501	J 50V
C9719	403 107 9509	M 10V
C9720	403 248 4104	J 100V

(RESISTORS)

LOCATION	PARTS No.	DESCRIPTION
R9701	401 037 5707	JA 1/10W
R9702	401 038 5409	JA 1/10W
R9703	401 037 5608	JA 1/10W
R9704	401 038 1807	JA 1/10W
R9707	401 037 9309	JA 1/10W
R9708	401 090 2002	JA 1/10W
R9711	401 089 2907	GA 1/10W
R9712	401 147 4003	GA 1/10W
R9713	401 038 3900	JA 1/10W
R9714	401 038 3504	JA 1/10W
R9716	401 037 5004	ZA 1/10W
R9717	401 038 3900	JA 1/10W
R9718	401 038 5409	JA 1/10W
R9719	401 037 5004	ZA 1/10W
R9720	401 037 6902	JA 1/10W
R9721	401 037 8203	JA 1/10W
R9722	401 037 5400	JA 1/10W
R9723	401 038 5508	JA 1/10W
R9724	401 038 8004	JA 1/10W
R9725	401 039 0700	JA 1/10W
R9726	401 037 5004	ZA 1/10W
R9751	401 037 5004	ZA 1/10W
R9752	401 035 4108	ZA 1/8W
R9753	401 035 4108	ZA 1/8W
R9754	401 035 4108	ZA 1/8W
R9755	401 037 5004	ZA 1/10W
R9756	401 035 4108	ZA 1/8W
R9757	401 035 4108	ZA 1/8W
R9758	401 035 4108	ZA 1/8W
R9760	401 035 4108	ZA 1/8W
R9761	401 037 5004	ZA 1/10W
R9764	401 037 5004	ZA 1/10W

COMPL,PWB,VF-1(VM-EX370P ONLY)

COMPL.No. 636 045 9953

(CAPACITORS)

LOCATION	PARTS No.	DESCRIPTION
C9701	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9702	403 207 0505	Z 16V
OR	403 278 9506	Z 16V
C9703	403 155 1807	K 25V
OR	403 237 8502	K 25V
OR	403 176 0100	K 25V
C9704	403 130 4106	K 25V
OR	403 221 3209	K 25V
C9705	403 130 4106	K 25V
OR	403 221 3209	K 25V
C9706	403 130 4106	K 25V
OR	403 221 3209	K 25V
C9707	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9708	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9709	403 155 1807	K 25V
OR	403 237 8502	K 25V
OR	403 176 0100	K 25V
C9710	403 155 1807	K 25V
OR	403 237 8502	K 25V
OR	403 176 0100	K 25V
C9712	403 157 7302	K 50V
OR	403 235 5800	K 50V
C9713	403 207 0307	Z 16V

SCHEMATIC DIAGRAM
&
PRINTED WIRING BOARD

VM-EX220P
VM-EX280P
VM-EX370P

CONTENTS

OVERALL WIRING • CP2 (CAMERA)/CA2 CIRCUIT Ⓐ

CP1 (SERVO/SYSTEM CONTROL) CIRCUIT
PW1 CIRCUIT • AD1 (AUDIO) CIRCUIT 【For VM-EX280P/370P】 Ⓑ

CP1 (VIDEO) CIRCUIT Ⓒ

CP2 (CAMERA FEATURE) CIRCUIT • VF1 (VIEWFINDER) CIRCUIT Ⓓ

CP2/CA2 BOARD (SIDE A) • PW1 BOARD (SIDE A) • TB2 CIRCUIT
AD1 BOARD (SIDE A) 【For VM-EX280P/370P】 • TB2 BOARD (SIDE A) (SIDE B) Ⓔ

CP2/CA2 BOARD (SIDE B) • PW1 BOARD (SIDE B)
AD1 BOARD (SIDE B) 【For VM-EX280P/370P】
VF1 BOARD (SIDE A) 【For VM-EX370P】 Ⓕ

CP1/AD2 BOARD (SIDE A) • VF1 BOARD (SIDE A) 【For VM-EX220P/280P】
VF1 BOARD (SIDE B) 【For VM-EX370P】 Ⓖ

CP1/AD2 BOARD (SIDE B) • VF1 BOARD (SIDE B) 【For VM-EX220P/280P】
AD1 BOARD (SIDE B) 【For VM-EX280P/370P】 Ⓗ

CP1 (AUDIO) CIRCUIT Ⓘ

AD2 (MICROPHONE) CIRCUIT Ⓙ

ER26P/EX, GX, E, A, ER261P/EDX, ER271P/E, EX

- The voltage shown in red on the circuit diagram is obtained by measurement using a digital voltmeter.
- Note that parts shown with "CAN" below the location No. in the circuit diagram are not used.
- Safety precautions:

  Parts marked with ⚠ are important for ensuring safety. Therefore, never replace any of these parts with a part of a number other than the corresponding specified part No.
- When any part needs to be replaced, refer to the parts list.
- The resistance is expressed in Ω.
- The capacity is expressed in μF unless otherwise specified.

  However, "P" indicates pF. For the electrolytic capacitors, the withstanding voltage (V) is shown.
- The inductance is expressed in mH unless otherwise specified. However, " μ " indicates μH.
- Cautions related to pattern diagram

  Side A: Shows the parts viewed from the pattern on the side A.
  (The pattern on the side A is shown in red.)

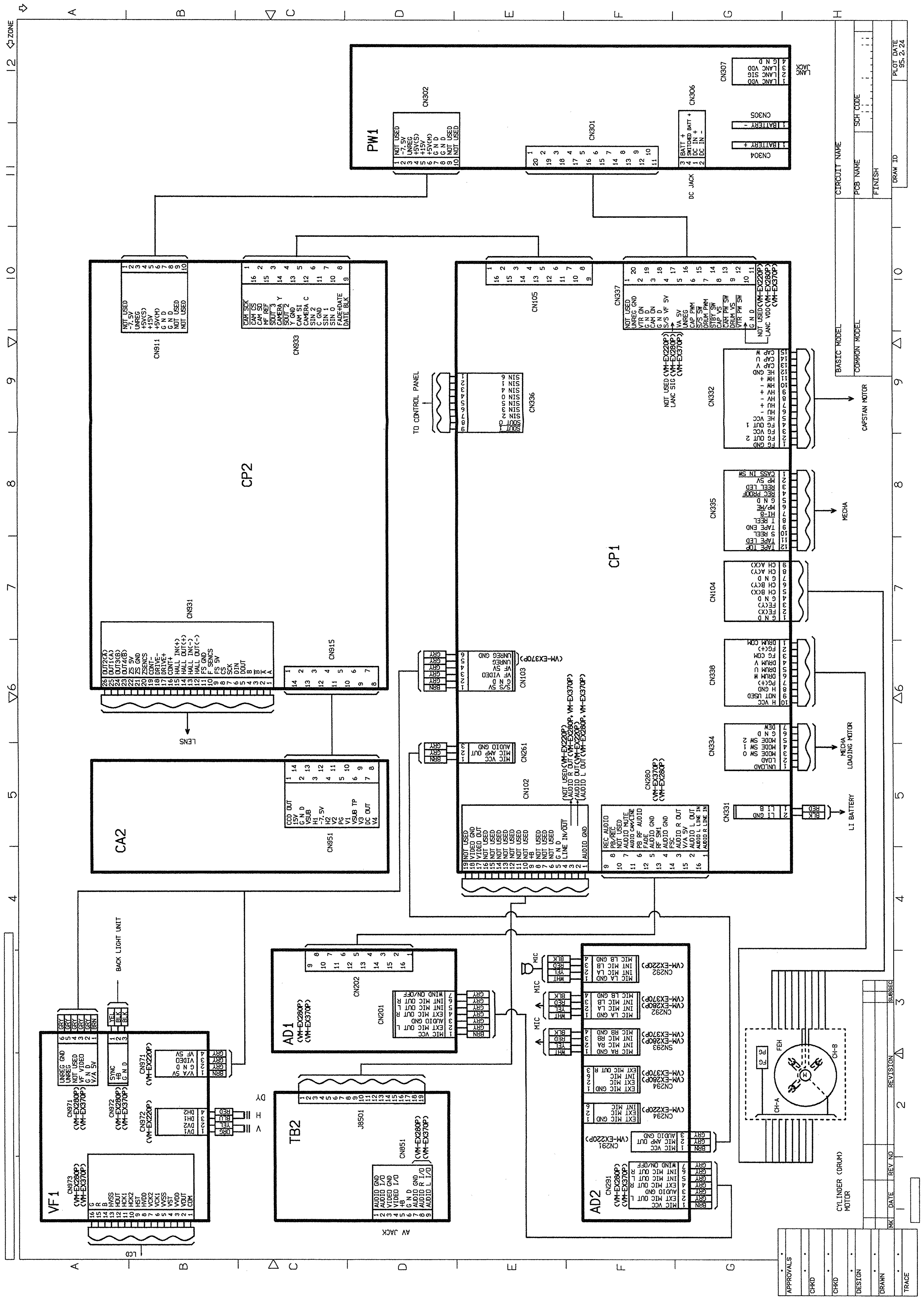
  Side B: Shows the parts viewed from the pattern on the side B.
  (The pattern on the side B is shown in black.)

But inner two layer's patterns are not shown.

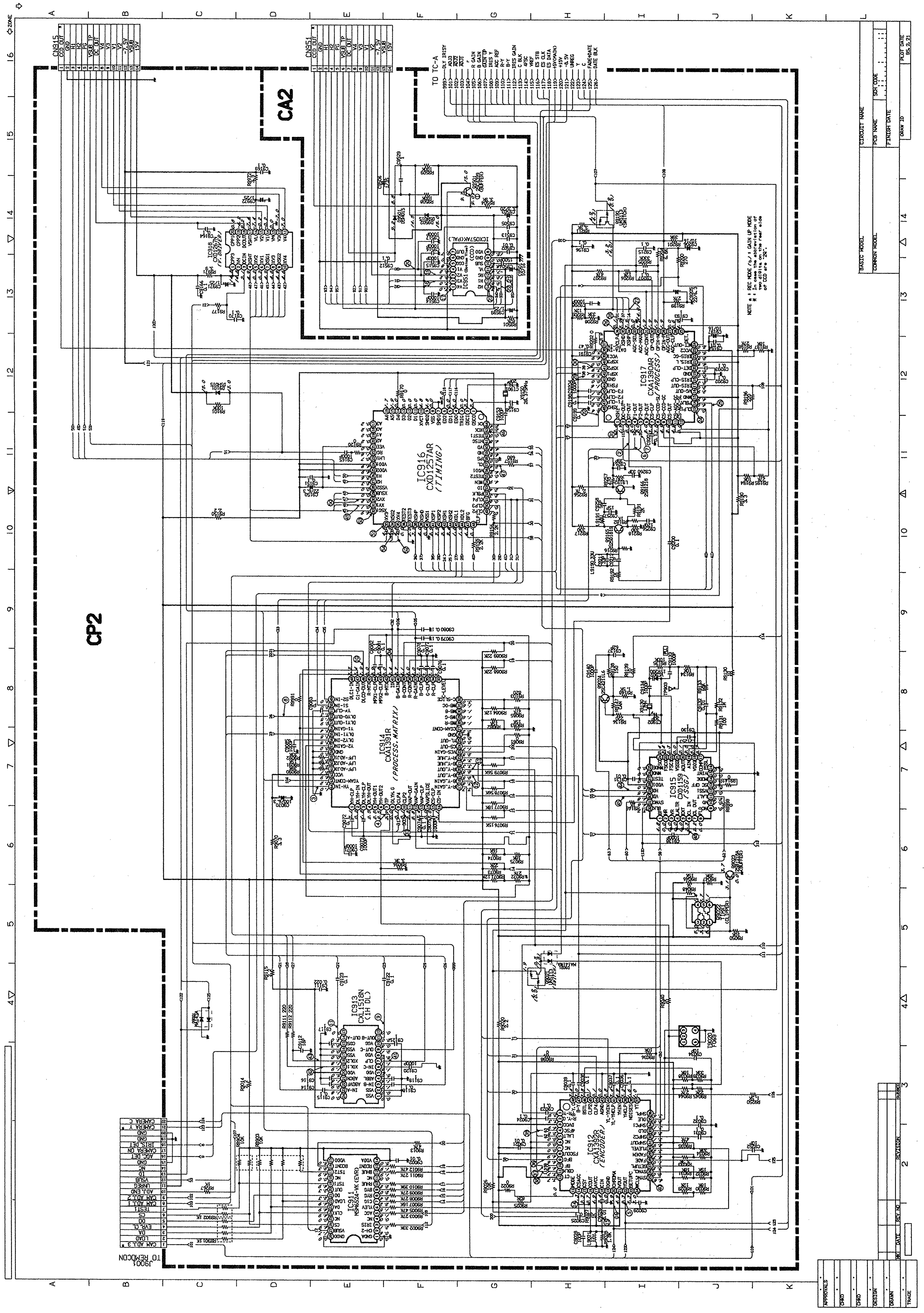
Note:

The circuit and pattern diagrams are prepared for the initial stage of mass production. Therefore, they may be subject to change for improvement.

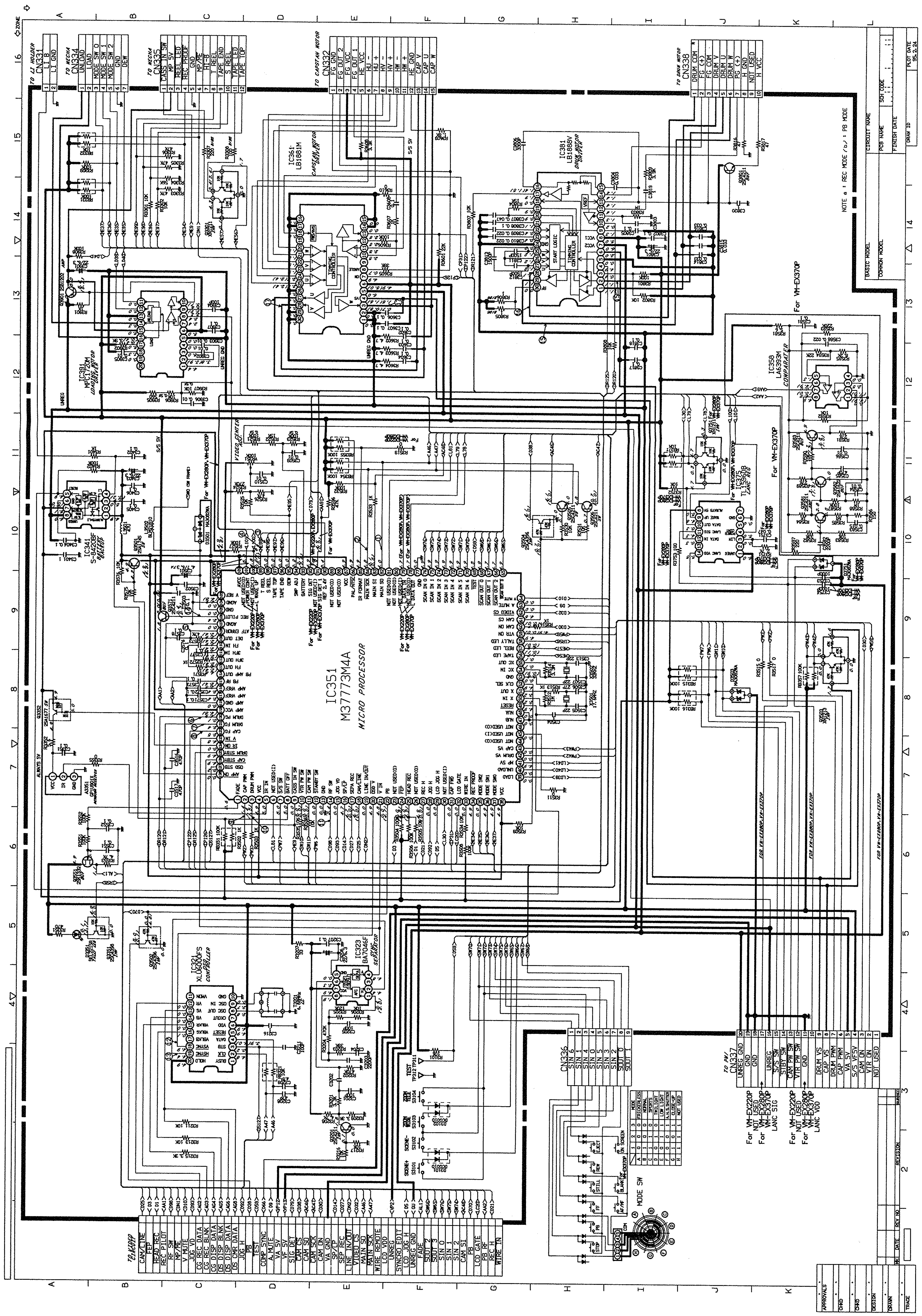
OVERALL WIRING


PW1
CP2
CA2
CP1
VF1
TB2
AD1
AD2
CN302
CN301
CN306
CN307
CN304
CN305
CN911
CN933
CN105
CN337
CN336
CN332
CN335
CN104
CN338
CN334
CN331
CN931
CN915
CN951
CN103
CN261
CN102
CN280
CN202
CN201
CN971
CN972
CN973
CN851
JS501
CN291
CN292
CN293
CN294
TO CONTROL PANEL
CAPSTAN MOTOR
MECHA
MECHA LOADING MOTOR
LI BATTERY
LENS
BACK LIGHT UNIT
MIC
DC JACK
LANC JACK
AV JACK
LCD
DY
CYLINDER (DRUM) MOTOR
BASIC MODEL
COMMON MODEL
CIRCUIT NAME
PCB NAME
SCH CODE
FINISH
DRAW ID
PLOT DATE
95.2.24
REVISION
APPROVALS
CHKD
DESIGN
DRAWN
TRACE

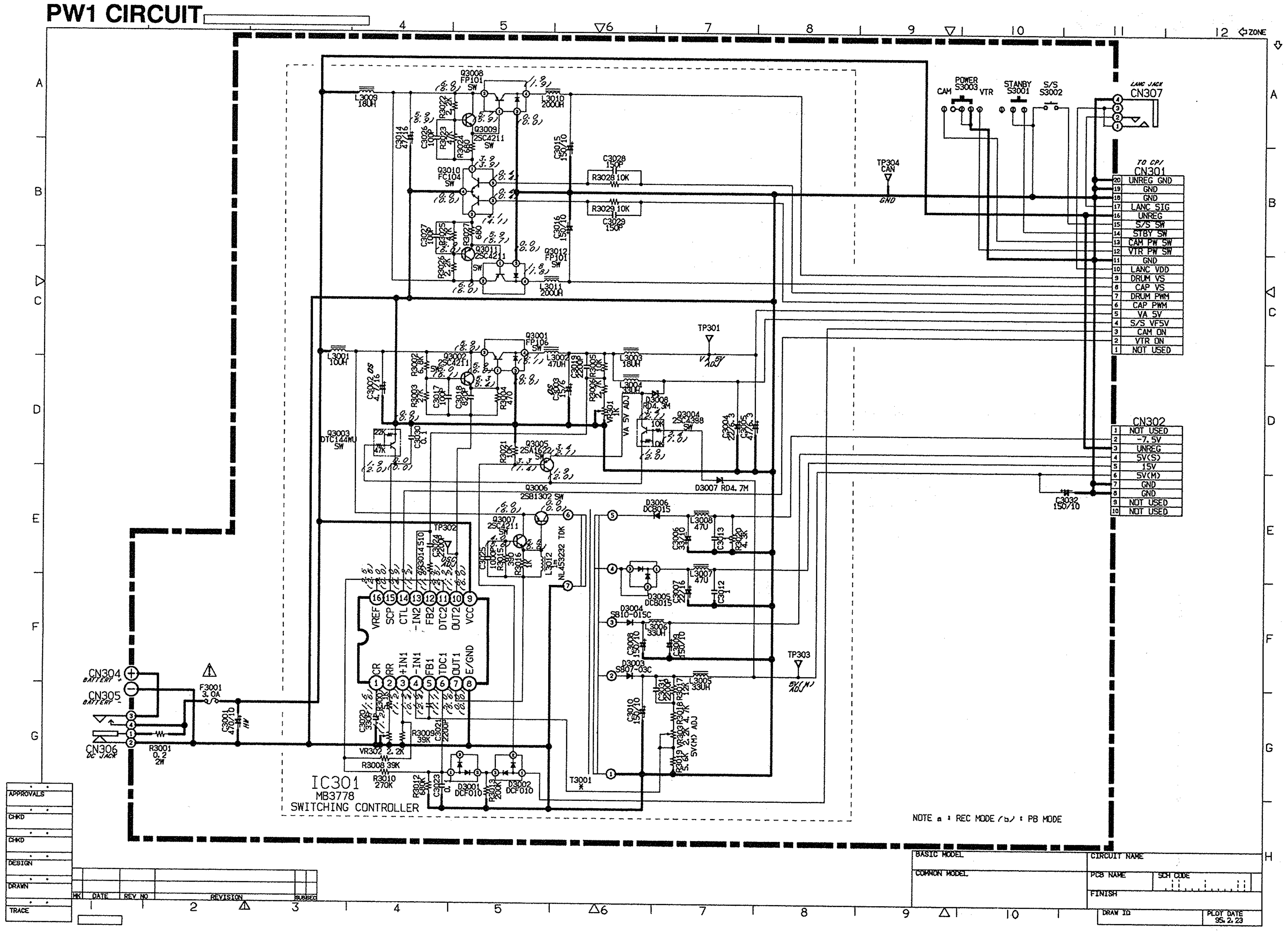
CP2 (CAMERA) /CA2 CIRCUIT


CA2
CP2
CN915
CN951
TO TC-A
IC916 CXD1257AR (TIMING)
IC917 CXA1390AR (PROCESS)
IC914 CXA1391R (PROCESS, MATRIX)
IC915
IC913 CXL1518N (1H DL)
IC912
IC911
IC951
IC918
CS901
TO REMOCON
BASIC MODEL
COMMON MODEL
CIRCUIT NAME
PCB NAME
SCH CODE
FINISH DATE
DRAW ID
PLOT DATE
95.2.21
REVISION
APPROVALS
CHKD
DESIGN
DRAWN
TRACE
A

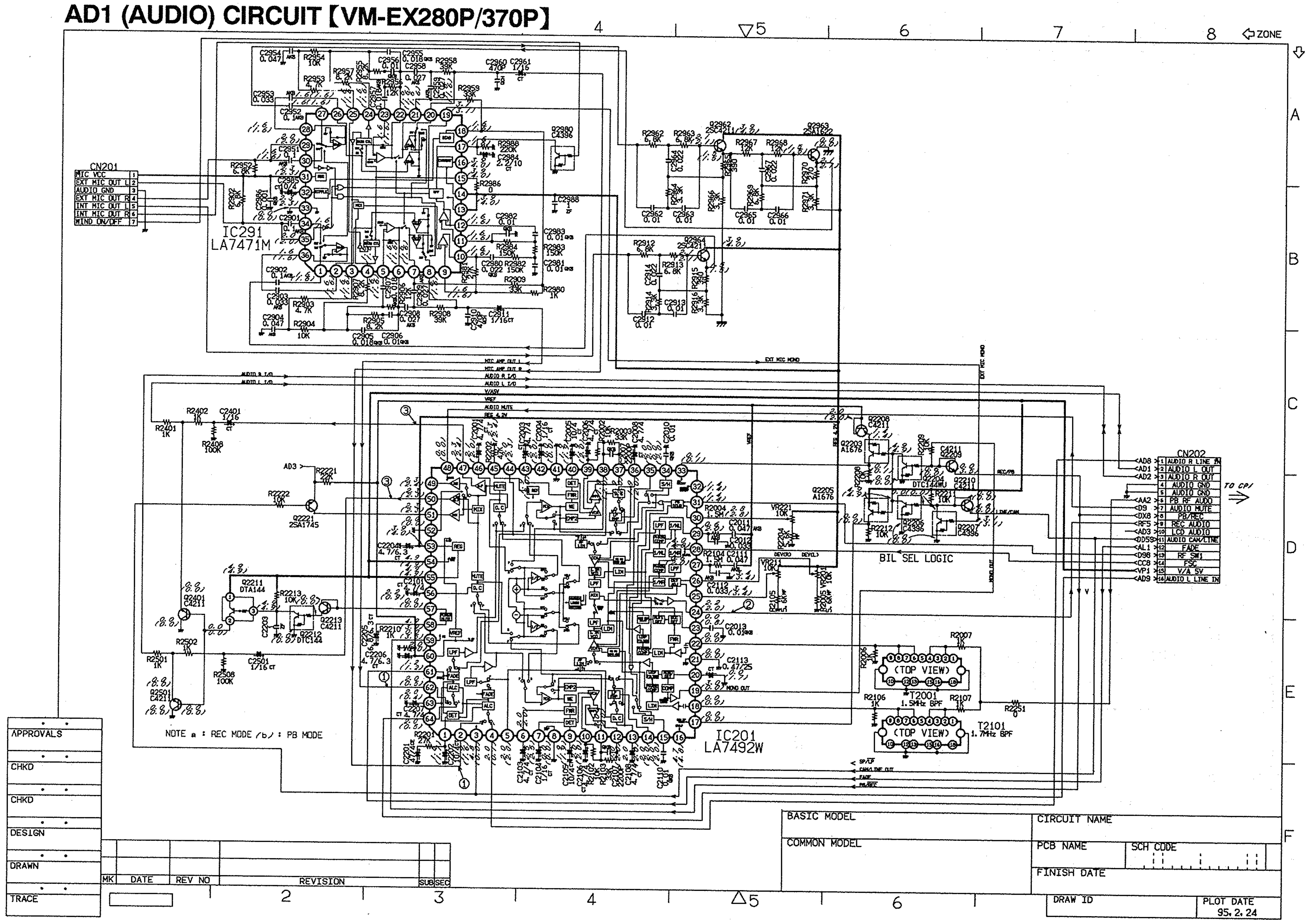
CP1 (SERVO/SYSTEM CONTROL) CIRCUIT


IC351
M37773M4A
MICRO PROCESSOR
IC361 LB1881M
IC381 LB1880V
IC358 LA6393M
IC321 XL0600FS
CN331
CN334
CN335
CN332
CN338
CN336
CN337
MODE SW
NOTE a : REC MODE /b/ : PB MODE
For VM-EX370P
For VM-EX220P
PLOT DATE 95.2.24

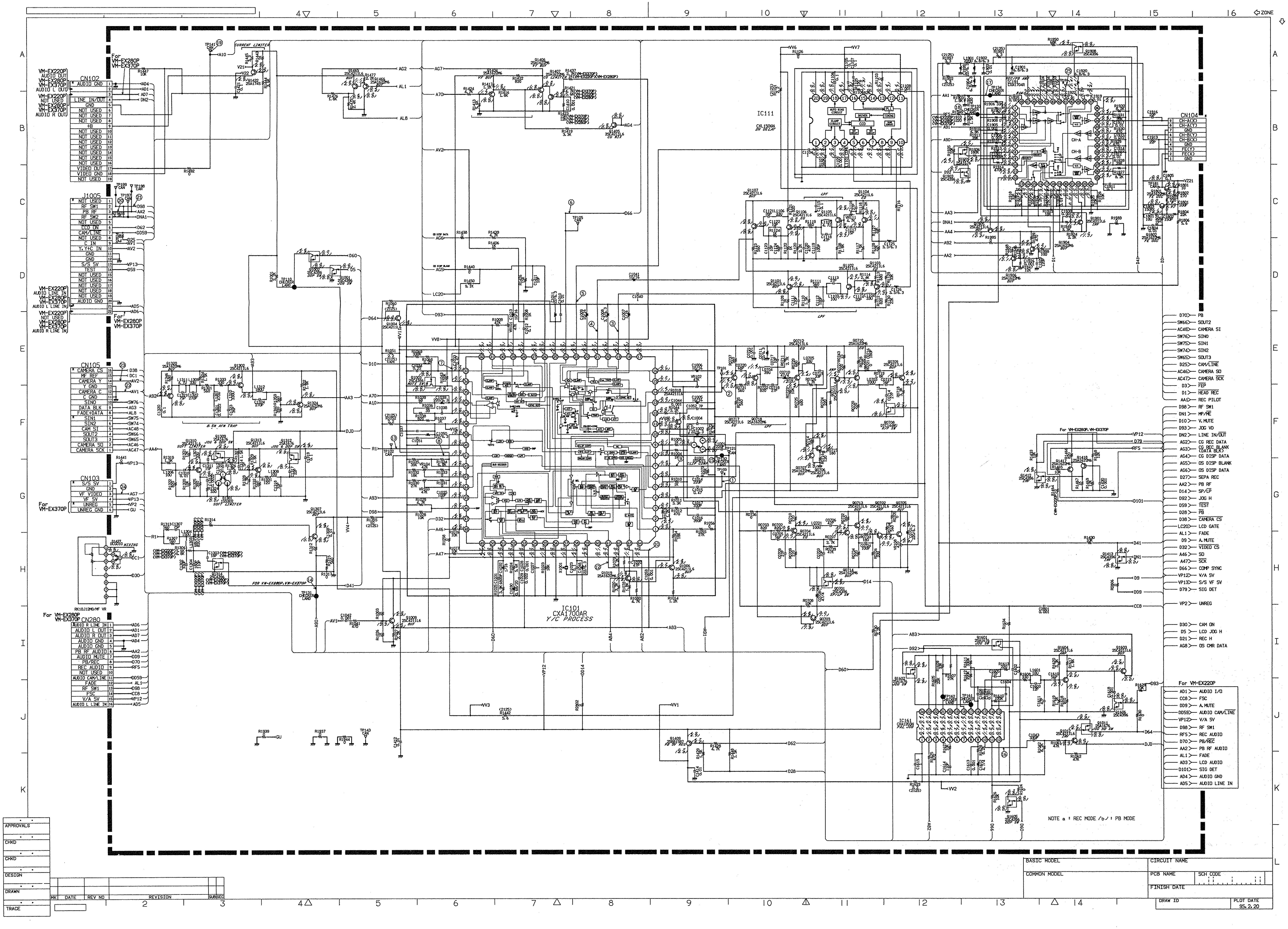
PW1 CIRCUIT


IC301
MB3778
SWITCHING CONTROLLER
CN301
CN302
CN304
CN305
CN306
CN307
POWER S3003
STANBY S3001
S/S S3002
CAM
VTR
TP301
TP303
TP304
NOTE a : REC MODE /b/ : PB MODE
BASIC MODEL
COMMON MODEL
CIRCUIT NAME
PCB NAME
SCH CODE
FINISH
DRAW ID
PLOT DATE 95.2.23
APPROVALS
CHKD
DESIGN
DRAWN
TRACE
REVISION

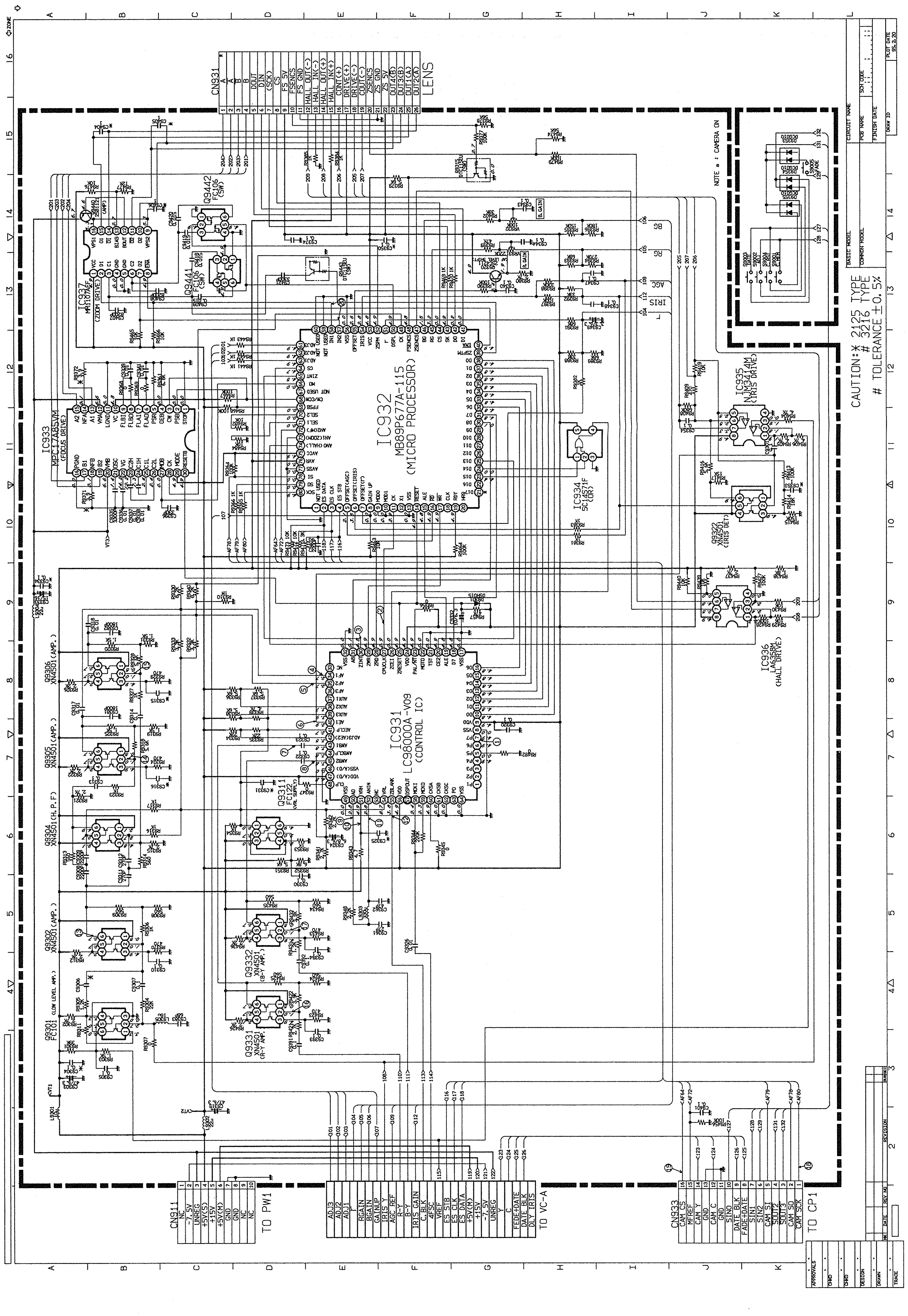
AD1 (AUDIO) CIRCUIT【VM-EX280P/370P】


IC291
LA7471M
IC201
LA7492W
CN201
CN202
BIL SEL LOGIC
T2001 (TOP VIEW) 1.5MHz BPF
T2101 (TOP VIEW) 1.7MHz BPF
NOTE a : REC MODE /b/ : PB MODE
TO CP1
BASIC MODEL
COMMON MODEL
CIRCUIT NAME
PCB NAME
SCH CODE
FINISH DATE
DRAW ID
PLOT DATE 95.2.24
APPROVALS
CHKD
DESIGN
DRAWN
TRACE
REVISION
B

CP1 (VIDEO) CIRCUIT

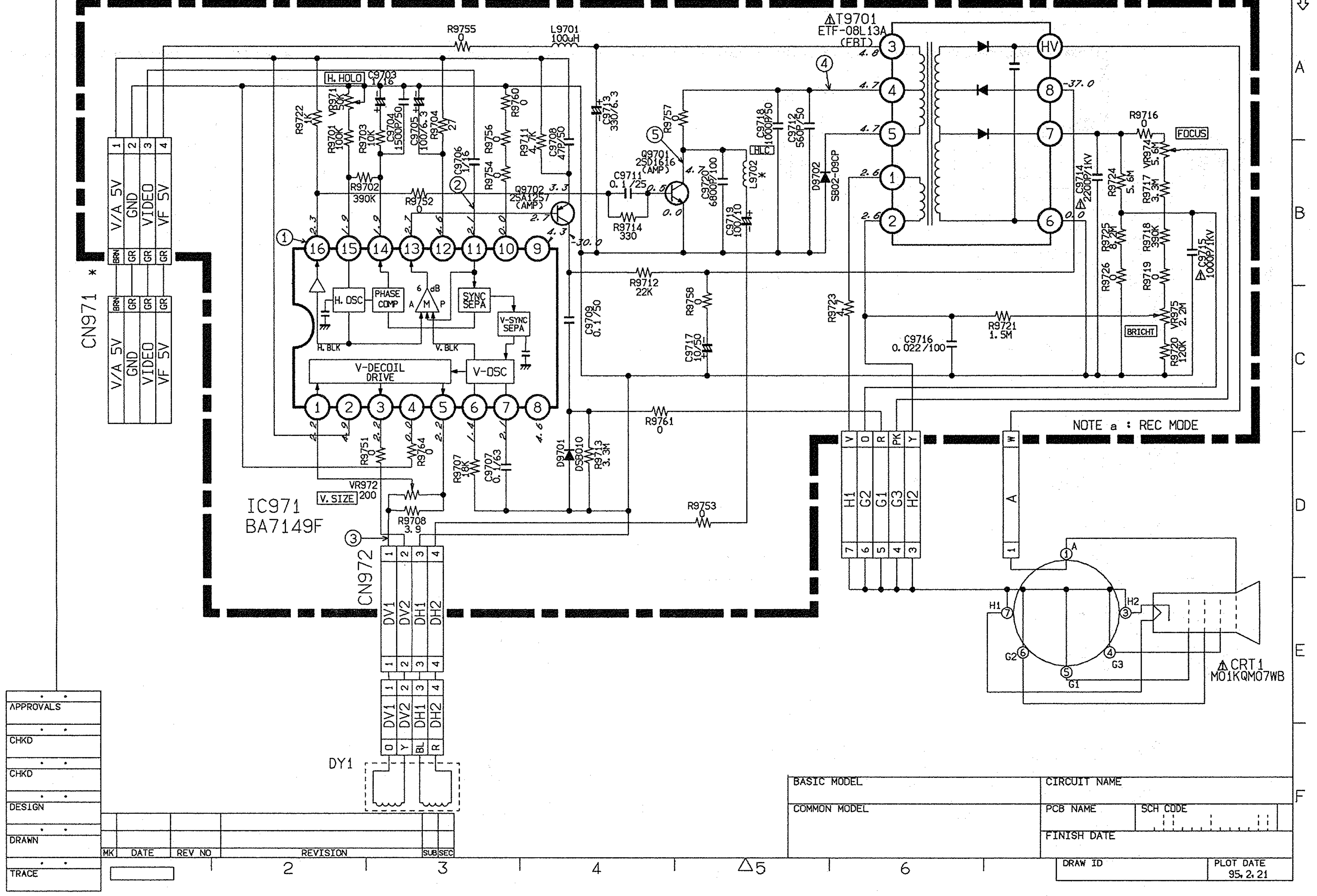

CN102
VM-EX220P AUDIO OUT
VM-EX280P VM-EX370P AUDIO L OUT
VM-EX220P NOT USED
VM-EX280P VM-EX370P AUDIO R OUT
1 AUDIO GND
4 LINE IN/OUT
5 GND
6 NOT USED
7 NOT USED
8 NOT USED
9 +B
10 NOT USED
11 NOT USED
12 NOT USED
13 NOT USED
14 NOT USED
15 NOT USED
16 NOT USED
17 VIDEO OUT
18 VIDEO GND
19 NOT USED
For VM-EX280P VM-EX370P
J1005
1 NOT USED
2 RF SW1
3 PB RF
4 RF SW2
5 NOT USED
6 CCD ON
7 CAM/LINE
8 NOT USED
9 C IN
10 Y, Y+C IN
11 GND
12 GND
13 S/S 5V
14 TEST
15 NOT USED
16 NOT USED
17 NOT USED
18 NOT USED
19 NOT USED
20 AUDIO GND
VM-EX220P AUDIO LINE IN
VM-EX280P VM-EX370P AUDIO L LINE IN
VM-EX220P NOT USED
VM-EX280P VM-EX370P AUDIO R LINE IN
CN105
16 CAMERA CS
15 MF REF
14 CAMERA Y
13 Y GND
12 CAMERA C
11 C GND
10 SINO
9 DATA BLK
8 FADE+DATA
7 SIN1
6 SIN2
5 CAM SI
4 SOUT2
3 SOUT3
2 CAMERA SO
1 CAMERA SCK
CN103
1 S/S 5V
2 GND
3 VF VIDEO
4 VF 5V
5 UNREG
6 UNREG GND
For VM-EX370P
Q1427 DCG010 MIXING
RK10J12MO/MF VR
For VM-EX280P VM-EX370P CN280
1 AUDIO R LINE IN
2 AUDIO L OUT
3 AUDIO R OUT
4 AUDIO GND
5 AUDIO GND
6 PB RF AUDIO
7 AUDIO MUTE
8 PB/REC
9 REC AUDIO
10 NOT USED
11 AUDIO CAM/LINE
12 FADE
13 RF SW1
14 FSC
15 V/A 5V
16 AUDIO L LINE IN
CURRENT LIMITER
VF BUF
CG MIX
8.5M AFM TRAP
SOFT LIMITER
JOG & OSD SW
FOR VM-EX280P, VM-EX370P
IC111
CXL1506N
2H DELAY
LPF
IC101
CXA1700AR
Y/C PROCESS
CN104
CH-A(X)
CH-A(Y)
GND
CH-B(Y)
CH-B(X)
GND
FE(Y)
FE(X)
GND
CH-A
CH-B
For VM-EX280P, VM-EX370P
IC161
NOTE a : REC MODE (b) : PB MODE
D70 PB
SW66 SOUT2
AC48 CAMERA SI
SW76 SINO
SW75 SIN1
SW74 SIN2
SW65 SOUT3
D25 CAM/LINE
AC46 CAMERA SO
AC47 CAMERA SCK
D3 FEP
D1 HEAD REC
AA1 REC PILOT
D98 RF SW1
DN1 MP/ME
D10 V.MUTE
D93 JOG VD
DN2 LINE IN/OUT
AG2 CG REC DATA
AG3 CG REC BLANK (DATA BLK)
AG4 CG DISP DATA
AG5 OS DISP BLANK
AG6 OS DISP DATA
D27 SEPA REC
AA2 PB RF
D14 SP/LP
D92 JOG H
D59 TEST
D28 PB
D38 CAMERA CS
LC20 LCD GATE
AL1 FADE
D9 A.MUTE
D32 VIDEO CS
A46 SO
A47 SCK
D66 COMP SYNC
VP12 V/A 5V
VP13 S/S VF 5V
D79 SIG DET
VP2 UNREG
D30 CAM ON
D5 LCD JOG H
D21 REC H
AG8 OS CMR DATA
For VM-EX220P
AD1 AUDIO I/O
CC8 FSC
DD9 A.MUTE
DD59 AUDIO CAM/LINE
VP12 V/A 5V
D98 RF SW1
RF5 REC AUDIO
D70 PB/REC
AA2 PB RF AUDIO
AL1 FADE
AD3 LCD AUDIO
D101 SIG DET
AD4 AUDIO GND
AD5 AUDIO LINE IN
ZONE
APPROVALS
CHKD
CHKD
DESIGN
DRAWN
TRACE
MK
DATE
REV NO
REVISION
SUBSEC
BASIC MODEL
COMMON MODEL
CIRCUIT NAME
PCB NAME
SCH CODE
FINISH DATE
DRAW ID
PLOT DATE
95.2.20

CP2 (CAMERA FEATURE) CIRCUIT

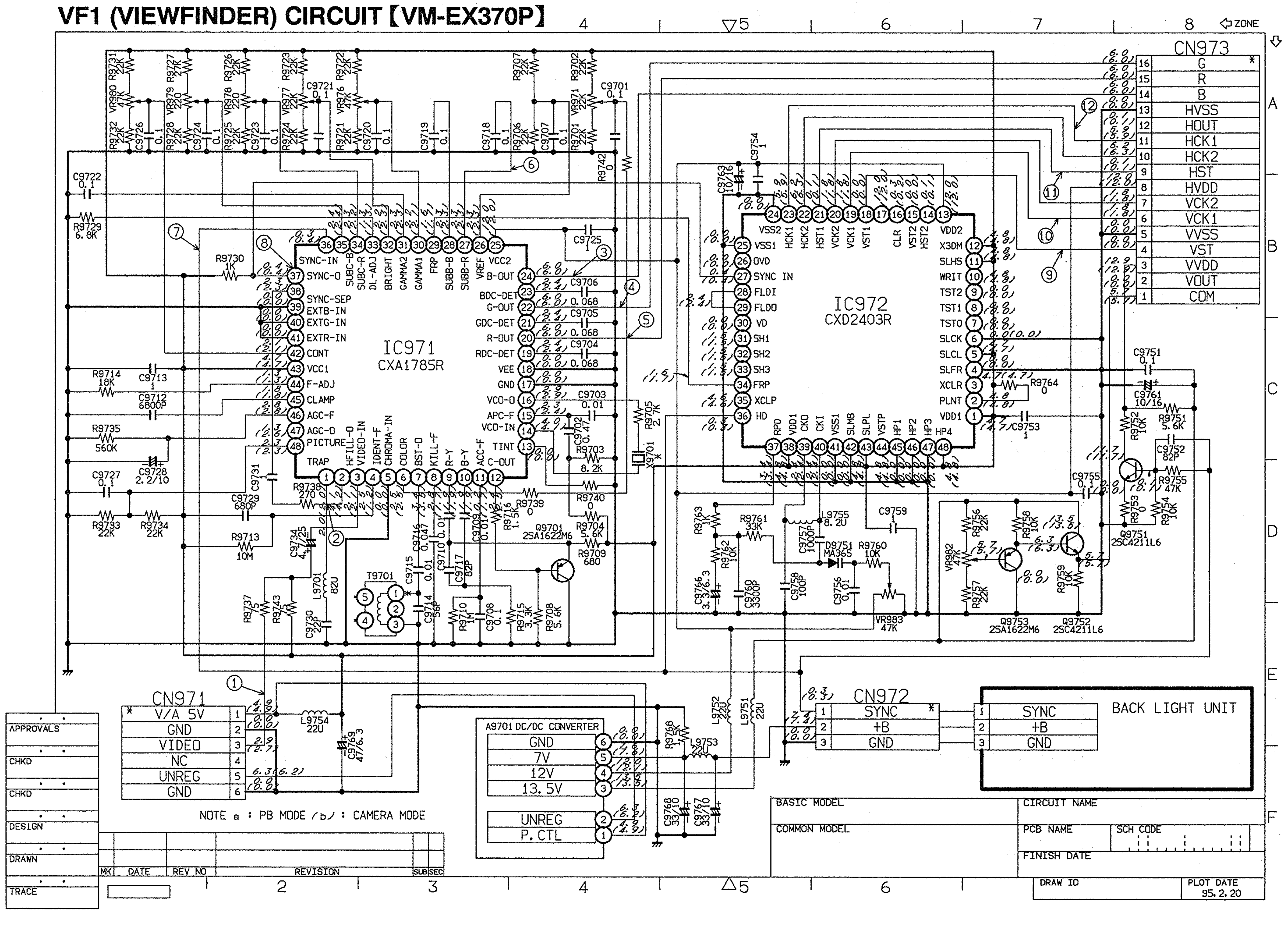

CN931
LENS
IC932
MB89P677A-115
(MICRO PROCESSOR)
IC931
LC98000A-V09
(CONTROL IC)
IC933
MPC17A85VM
(FOCUS DRIVE)
IC937
(ZOOM DRIVE)
IC935
(IRIS DRIVE)
IC934
IC936
(HALL DRIVE)
NOTE a : CAMERA ON
CAUTION: ✱ 2125 TYPE
# 3216 TYPE
# TOLERANCE ±0.5%
CN911
TO PW1
TO VC-A
CN933
TO CP1

D

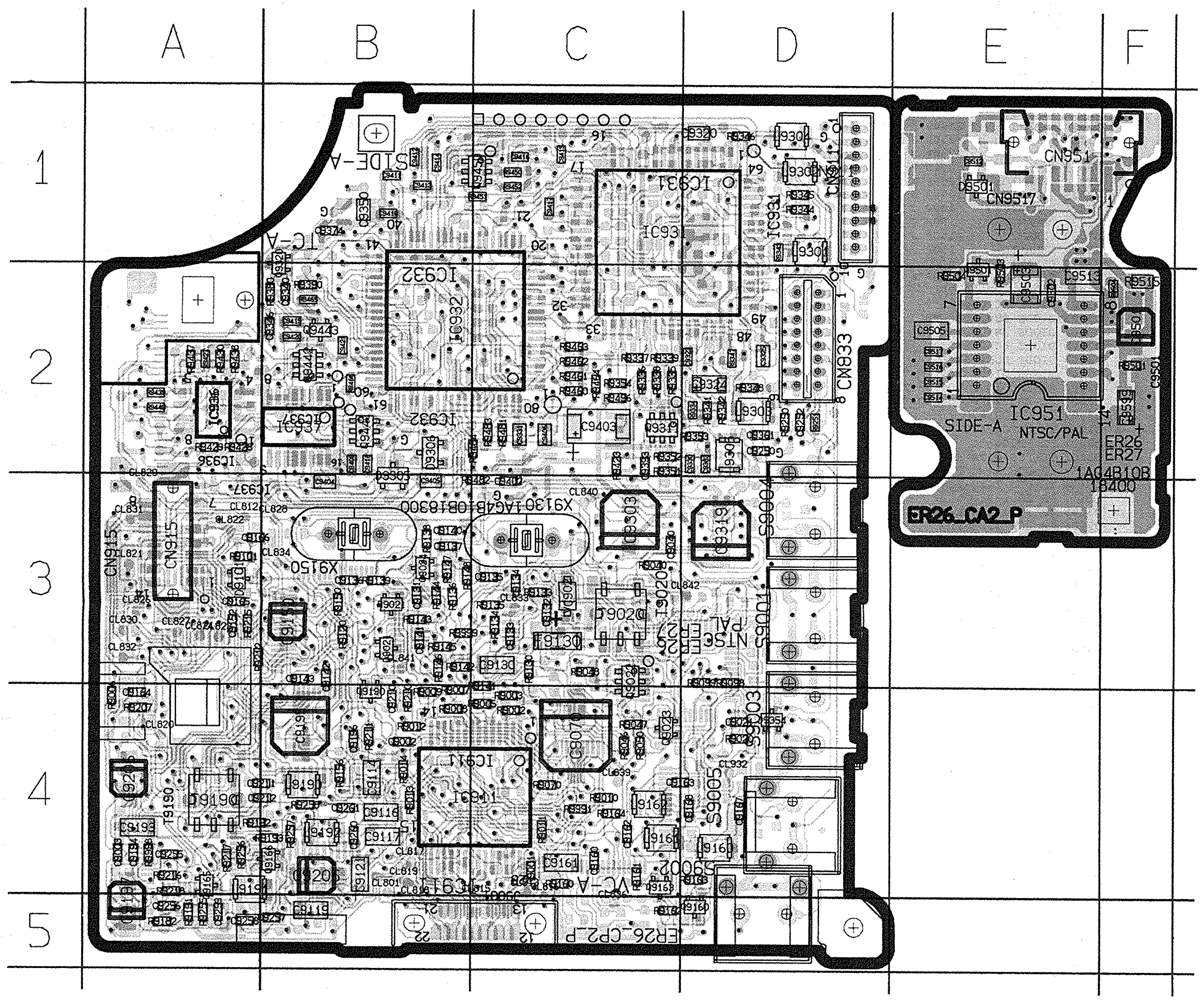
VF1 (VIEWFINDER) CIRCUIT【VM-EX220P/280P】


T9701
ETF-08L13A
(FBT)
FOCUS
BRIGHT
V.SIZE
IC971
BA7149F
H.OSC
PHASE COMP
SYNC SEPA
V-SYNC SEPA
V-DECOIL DRIVE
V-OSC
CN971
V/A 5V
GND
VIDEO
VF 5V
CN972
DV1
DV2
DH1
DH2
DY1
NOTE a : REC MODE
CRT1
M01KQM07WB
APPROVALS
CHKD
DESIGN
DRAWN
TRACE
BASIC MODEL
COMMON MODEL
CIRCUIT NAME
PCB NAME
SCH CODE
FINISH DATE
DRAW ID
PLOT DATE
95.2.21

VF1 (VIEWFINDER) CIRCUIT【VM-EX370P】

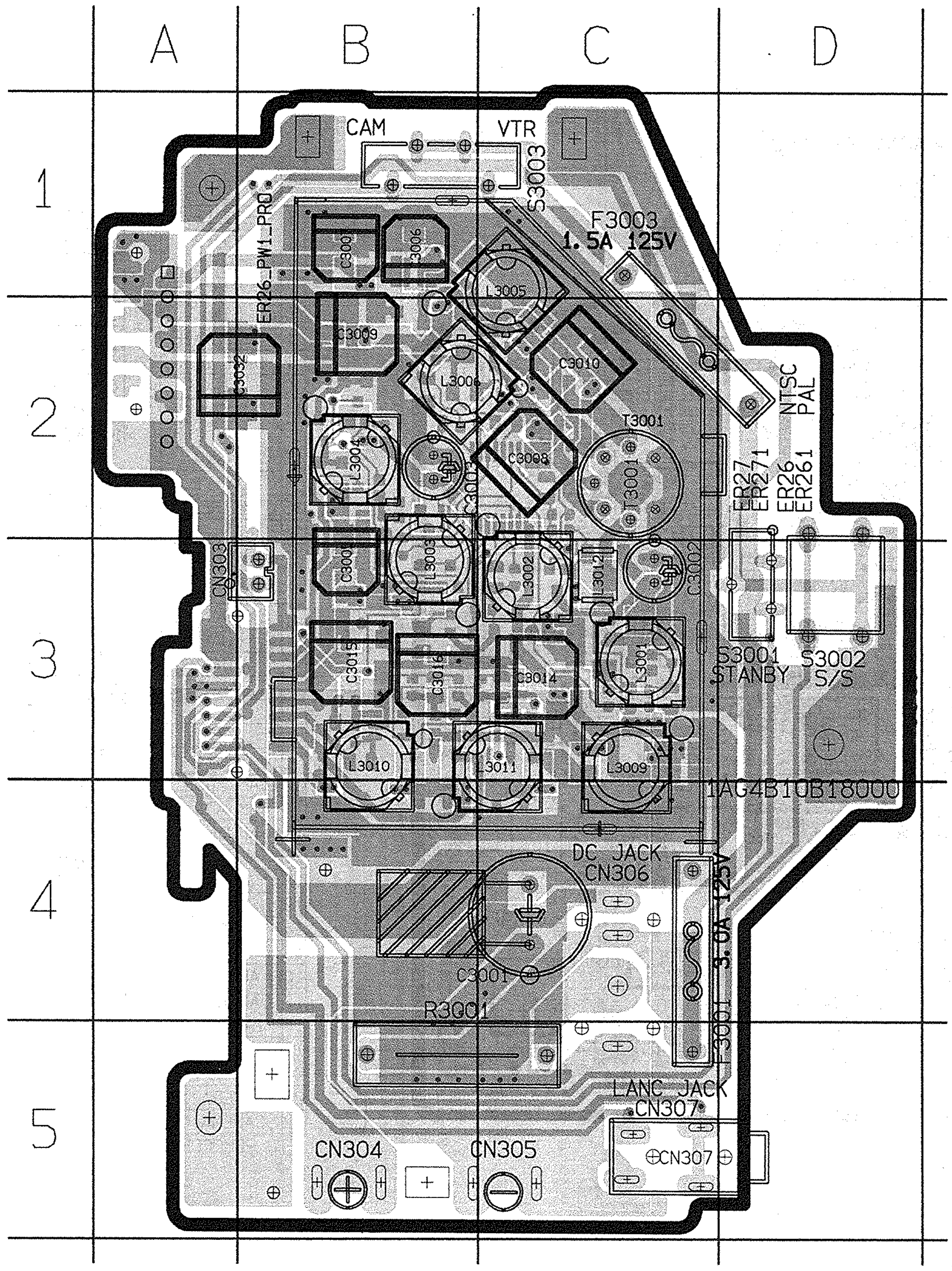

CN973
G
R
B
HVSS
HOUT
HCK1
HCK2
HST
HVDD
VCK2
VCK1
VVSS
VST
VVDD
VOUT
COM
IC971
CXA1785R
IC972
CXD2403R
CN971
V/A 5V
GND
VIDEO
NC
UNREG
GND
A9701 DC/DC CONVERTER
GND
7V
12V
13.5V
UNREG
P.CTL
CN972
SYNC
+B
GND
BACK LIGHT UNIT
NOTE a : PB MODE /b/ : CAMERA MODE
APPROVALS
CHKD
DESIGN
DRAWN
TRACE
BASIC MODEL
COMMON MODEL
CIRCUIT NAME
PCB NAME
SCH CODE
FINISH DATE
DRAW ID
PLOT DATE
95.2.20

CP2/CA2 BOARD (SIDE A)

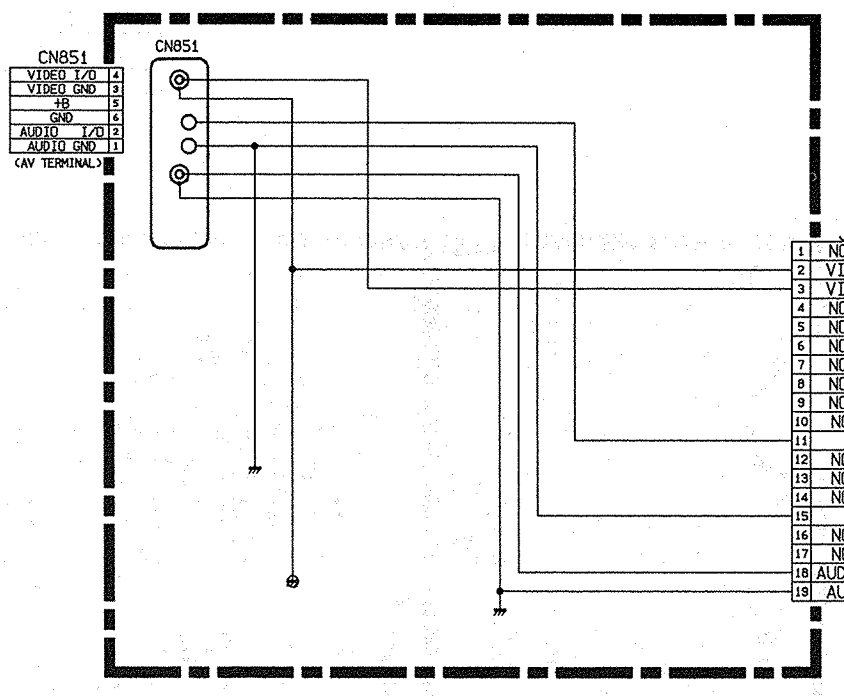

A
B
C
D
E
F
1
2
3
4
5
SIDE-A
IC931
IC932
IC951
NTSC/PAL
CN951
CN933
CN915
IC911
X9150
ER26_CA2_P
ER26_CP2_P
ER26
ER27
1AG4B10B
18400

CN915 CN951	
1	CCD OUT
2	GND
3	H1
4	H2
5	PG
6	VSUB TP
7	DC OUT
8	V4
9	V3
10	V1
11	V2
12	-7.5V
13	VSUB
14	15V

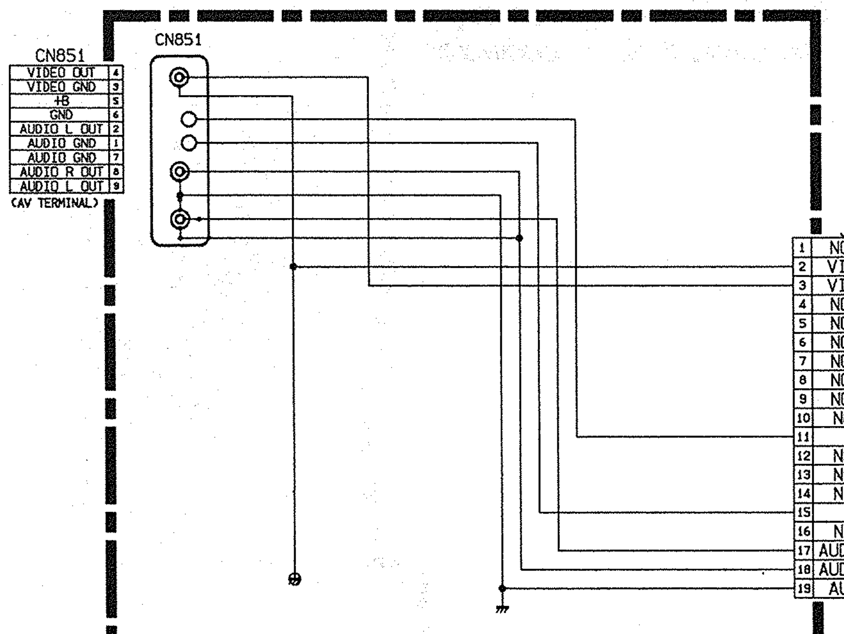
PW1 BOARD (SIDE A)


A
B
C
D
1
2
3
4
5
CAM
VTR
S3003
F3003
1.5A 125V
ER26_PW1_PRO
NTSC
PAL
T3001
ER27
ER271
ER26
ER261
S3001
STANBY
S3002
S/S
L3010
L3011
L3009
1AG4B10B18000
DC JACK
CN306
3.0A 125V
C3001
R3001
LANC JACK
CN307
CN304
CN305
CN303

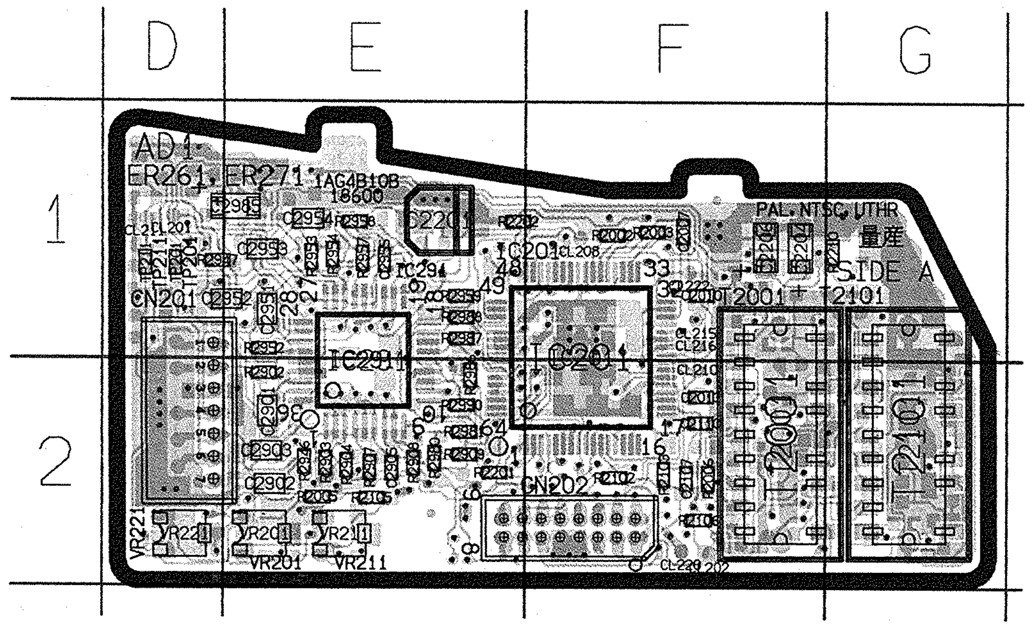
TB2 CIRCUIT【VM-EX220P】


CN851
VIDEO I/O 4
VIDEO GND 3
+B 5
GND 6
AUDIO I/O 2
AUDIO GND 1
(AV TERMINAL)
CN851
J8501
1 NOT USED *
2 VIDEO GND
3 VIDEO I/O
4 NOT USED
5 NOT USED
6 NOT USED
7 NOT USED
8 NOT USED
9 NOT USED
10 NOT USED
11 +B
12 NOT USED
13 NOT USED
14 NOT USED
15 GND
16 NOT USED
17 NOT USED
18 AUDIO L I/O
19 AUDIO GND

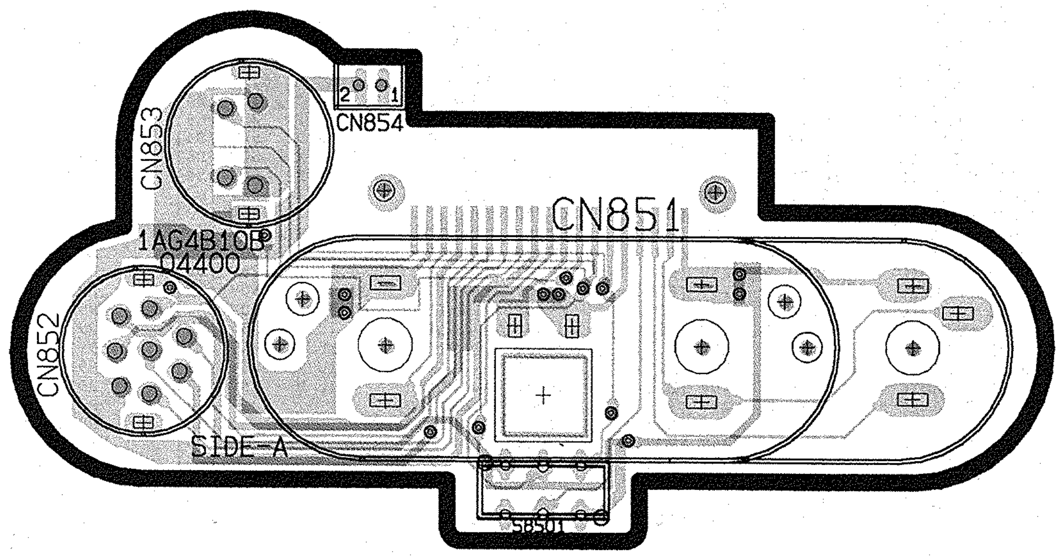
TB2 CIRCUIT【VM-EX280P/370P】


CN851
VIDEO OUT 4
VIDEO GND 3
+B 5
GND 6
AUDIO L OUT 2
AUDIO GND 1
AUDIO GND 7
AUDIO R OUT 8
AUDIO L OUT 9
(AV TERMINAL)
CN851
J8501
1 NOT USED
2 VIDEO GND
3 VIDEO OUT
4 NOT USED
5 NOT USED
6 NOT USED
7 NOT USED
8 NOT USED
9 NOT USED
10 NOT USED
11 +B
12 NOT USED
13 NOT USED
14 NOT USED
15 GND
16 NOT USED
17 AUDIO R OUT
18 AUDIO L OUT
19 AUDIO GND

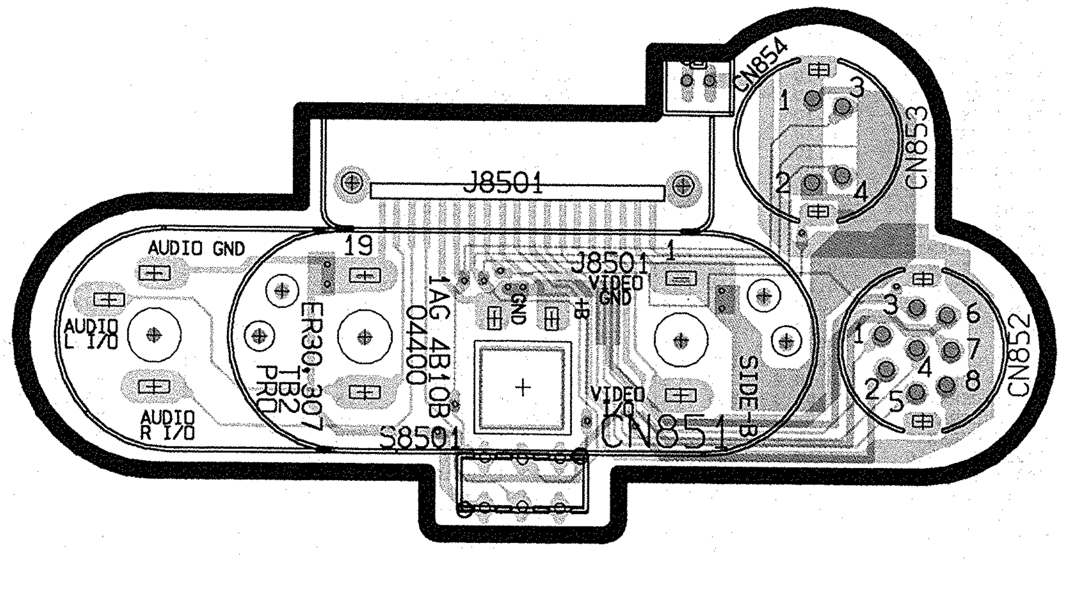
AD1 BOARD (SIDE A)【VM-EX280P/370P】


D
E
F
G
1
2
AD1
ER261
ER271
1AG4B10B
18600
PAL NTSC
SIDE A
IC291
IC201
T2001
T2101
CN201
CN202
VR221
VR201
VR211

TB2 BOARD (SIDE A)


CN853
CN854
CN851
CN852
1AG4B10B
04400
SIDE-A
S8501

TB2 BOARD (SIDE B)


CN854
CN853
J8501
AUDIO GND
AUDIO L I/O
AUDIO R I/O
ER30_3307
PB2
1AG4B10B
04400
J8501
VIDEO GND
VIDEO I/O
SIDE-B
S8501
CN851
CN852

LEADLESS COMPONENT PARTS LOCATION GUIDE
CP2/CA2 BOARD (SIDE A)

C9002	CERAMIC	0.01U	K	25V	[B4]
C9021	CERAMIC	0.01U	K	25V	[D4]
C9070	ELECT	100U	M	6.3V	[C4]
C9114	CERAMIC	1U	Z	16V	[B4]
C9116	CERAMIC	1U	Z	16V	[B4]
C9117	CERAMIC	1U	Z	16V	[B4]
C9119	CERAMIC	1U	Z	16V	[B5]
C9121	CERAMIC	1U	Z	16V	[B4]
C9130	CERAMIC	1U	Z	16V	[C3]
C9131	CERAMIC	0.01U	K	25V	[B3]
C9132	CERAMIC	0.01U	K	25V	[C3]
C9133	CERAMIC	1000P	K	50V	[C3]
C9134	CERAMIC	1000P	K	50V	[C3]
C9137	CERAMIC	62P	J	50V	[B3]
C9140	CERAMIC	1000P	K	50V	[B3]
C9150	ELECT	22U	M	6.3V	[B3]
C9164	CERAMIC	0.1U	Z	25V	[A4]
C9165	CERAMIC	1000P	K	50V	[A3]
C9166	CERAMIC	0.1U	Z	25V	[A3]
C9193	CERAMIC	1U	Z	16V	[A4]
C9194	CERAMIC	0.01U	K	25V	[A4]
C9196	CERAMIC	0.1U	Z	25V	[B4]
C9197	ELECT	10U	M	16V	[A5]
C9205	ELECT	22U	M	6.3V	[B4]
C9206	ELECT	10U	M	16V	[A4]
C9211	CERAMIC	33P	J	50V	[B4]
C9212	CERAMIC	1P	C	50V	[B4]
C9252	CERAMIC	10P	D	50V	[D2]
C9256	CERAMIC	120P	J	50V	[A5]
C9257	CERAMIC	15P	J	50V	[B5]
C9258	CERAMIC	56P	J	50V	[A5]
C9260	CERAMIC	33P	J	50V	[B4]
C9261	CERAMIC	39P	J	50V	[B4]
C9303	ELECT	47U	M	6.3V	[C3]
C9319	ELECT	47U	M	6.3V	[D3]
C9320	CERAMIC	0.1U	Z	25V	[D1]
C9323	CERAMIC	0.1U	Z	25V	[D2]
C9324	TA-SOLID	6.8U	M	6.3V	[D2]
C9325	CERAMIC	1U	Z	16V	[D2]
C9330	CERAMIC	0.1U	Z	25V	[D3]
C9331	CERAMIC	1U	Z	16V	[C2]
C9340	CERAMIC	0.1U	Z	25V	[B2]
C9350	CERAMIC	0.1U	Z	25V	[B1]
C9361	CERAMIC	27P	J	50V	[D2]
C9374	CERAMIC	0.1U	Z	25V	[B1]
C9383	CERAMIC	68P	J	50V	[D3]
C9393	CERAMIC	0.1U	Z	25V	[C3]
C9402	CERAMIC	2200P	K	50V	[C3]
C9403	TA-SOLID	22U	M	16V	[C2]
C9404	CERAMIC	1U	Z	16V	[B3]
C9405	CERAMIC	1U	Z	16V	[B3]
C9406	CERAMIC	1U	Z	16V	[C2]
C9409	CERAMIC	0.015U	K	25V	[B3]
C9418	CERAMIC	0.015U	K	25V	[B3]
C9419	CERAMIC	0.015U	K	25V	[B2]
C9420	CERAMIC	0.015U	K	25V	[B2]
C9421	CERAMIC	3300P	K	50V	[B2]
C9501	ELECT	10U	M	16V	[F2]
C9502	CERAMIC	0.01U	K	25V	[E2]
C9503	TA-SOLID	3.3U	M	20V	[E2]
C9504	CERAMIC	1500P	K	50V	[F2]
C9505	CERAMIC	1U	Z	25V	[E2]
C9512	CERAMIC	0.1U	Z	25V	[E1]
C9513	CERAMIC	1U	Z	25V	[E2]
C9514	CERAMIC	1000P	K	50V	[E2]
C9515	CERAMIC	1000P	K	50V	[E2]
C9516	CERAMIC	1000P	K	50V	[E2]
C9517	CERAMIC	1000P	K	50V	[E2]
C9599	TA-SOLID	1U	M	25V	[F2]
D9021	DIODE MA141WA-TX				[B3]
D9101	DIODE MA141K-TX				[A3]
D9354	DIODE DAN202U-T106				[D4]
D9501	DIODE MA141K-TX				[E1]
IC911	IC MSM6524GS-VKR2				[C4]
IC931	IC LC98000A-V09				[C1]
IC932	IC MB89677A-115				[B2]
IC936	IC LA6358NM-TP-T1				[A2]
IC937	IC MM1107AFF				[B2]
L9190	INDUCTOR,33U J				[B4]
L9191	INDUCTOR,68U J				[A5]
L9192	INDUCTOR,33U J				[B4]
L9301	INDUCTOR,10U K				[D1]
L9302	INDUCTOR,22U K				[D1]
L9303	INDUCTOR,330U K				[D2]
L9304	INDUCTOR,22U K				[D1]
L9305	INDUCTOR,18U K				[D2]
Q9021	TR DTA144EU-T106				[B3]
Q9022	TR IMX1-T109				[C4]
Q9023	TR 2SB1218A-R-TX				[C4]
Q9024	TR 2SD1819A-R-TX				[B3]
Q9165	TR 2SD1819A-R-TX				[A5]
Q9166	TR 2SB1218A-R-TX				[B4]
Q9190	TR DTA144EU-T106				[B4]
Q9311	TR FC122-TL				[C2]
Q9320	TR 2SD1819A-R-TX				[B2]
Q9441	TR FC106-TL				[B2]
Q9442	TR FC106-TL				[B2]
Q9443	TR DTC115EU-T106				[B2]
Q9501	TR 2SC4399-5-TL				[E2]
R9002	MT-GLAZE	18K	JA	1/16W	[C4]
R9003	MT-GLAZE	27K	JA	1/16W	[C4]
R9005	MT-GLAZE	47K	JA	1/16W	[C4]
R9007	MT-GLAZE	18K	JA	1/16W	[B4]
R9008	MT-GLAZE	27K	JA	1/16W	[B4]
R9009	MT-GLAZE	27K	JA	1/16W	[B4]
R9010	MT-GLAZE	39K	JA	1/16W	[C4]
R9011	MT-GLAZE	27K	JA	1/16W	[C4]
R9012	MT-GLAZE	47K	JA	1/16W	[B4]
R9013	MT-GLAZE	47K	JA	1/16W	[B4]
R9014	MT-GLAZE	2.2	JA	1/16W	[B4]
R9020	MT-GLAZE	2.2	JA	1/16W	[D4]
R9040	MT-GLAZE	1K	JA	1/16W	[C3]
R9046	MT-GLAZE	15K	JA	1/16W	[C4]
R9047	MT-GLAZE	39K	JA	1/16W	[C4]
R9048	MT-GLAZE	0.000	ZA	1/16W	[C4]
R9050	MT-GLAZE	10K	JA	1/16W	[C4]
R9070	MT-GLAZE	3.3	JA	1/16W	[C4]
R9098	MT-GLAZE	0.000	ZA	1/16W	[D4]
R9101	MT-GLAZE	100K	JA	1/16W	[A3]
R9120	MT-GLAZE	0.000	ZA	1/16W	[B3]
R9130	MT-GLAZE	10	JA	1/16W	[C3]
R9133	MT-GLAZE	68K	JA	1/16W	[C3]
R9134	MT-GLAZE	10K	JA	1/16W	[C3]
R9135	MT-GLAZE	100K	JA	1/16W	[C3]
R9136	MT-GLAZE	220	JA	1/16W	[B3]
R9138	MT-GLAZE	150	JA	1/16W	[B3]
R9139	MT-GLAZE	10	JA	1/16W	[B3]
R9141	MT-GLAZE	0.000	ZA	1/16W	[C4]
R9146	MT-GLAZE	1K	JA	1/16W	[B3]
R9148	MT-GLAZE	1.5K	JA	1/16W	[B3]
R9150	MT-GLAZE	2.2	JA	1/16W	[B3]
R9156	MT-GLAZE	2.2K	JA	1/16W	[B4]
R9182	MT-GLAZE	1K	JA	1/16W	[A5]
R9191	MT-FILM	2K	DU	1/16W	[A5]
R9192	MT-GLAZE	1K	JA	1/16W	[B4]
R9207	MT-GLAZE	47K	JA	1/16W	[A4]
R9211	MT-GLAZE	3.9K	JA	1/16W	[B4]
R9216	MT-GLAZE	1K	JA	1/16W	[A4]
R9217	MT-GLAZE	330	JA	1/16W	[A4]
R9218	MT-GLAZE	330	JA	1/16W	[A5]
R9250	MT-GLAZE	1.5K	JA	1/16W	[D2]
R9256	MT-GLAZE	2.7K	JA	1/16W	[A4]
R9257	MT-GLAZE	470	JA	1/16W	[B4]
R9334	MT-GLAZE	22K	JA	1/16W	[D2]
R9335	MT-GLAZE	22K	JA	1/16W	[C2]
R9336	MT-GLAZE	5.6K	JA	1/16W	[C2]
R9337	MT-GLAZE	5.6K	JA	1/16W	[C2]
R9338	MT-GLAZE	5.6K	JA	1/16W	[C2]
R9339	MT-GLAZE	4.7K	JA	1/16W	[C2]
R9341	MT-GLAZE	2.7K	JA	1/16W	[D2]
R9342	MT-GLAZE	2.7K	JA	1/16W	[D2]
R9343	MT-GLAZE	4.7	JA	1/16W	[D2]
R9344	MT-GLAZE	220K	JA	1/16W	[D1]
R9345	MT-GLAZE	0.000	ZA	1/16W	[D1]
R9347	MT-GLAZE	0.000	ZA	1/16W	[D2]
R9348	MT-GLAZE	2.2K	JA	1/16W	[D2]
R9351	MT-GLAZE	5.6K	JA	1/16W	[C3]
R9352	MT-GLAZE	6.8K	JA	1/16W	[C2]
R9353	MT-GLAZE	1K	JA	1/16W	[D2]
R9354	MT-GLAZE	1K	JA	1/16W	[C2]
R9380	MT-GLAZE	2.7K	JA	1/16W	[B2]
R9390	MT-GLAZE	100K	JA	1/16W	[B2]
R9423	MT-GLAZE	470	JA	1/16W	[C3]
R9427	MT-GLAZE	100K	JA	1/16W	[A2]
R9428	MT-GLAZE	100K	JA	1/16W	[A2]
R9429	MT-GLAZE	10K	JA	1/16W	[A2]
R9430	MT-GLAZE	10K	JA	1/16W	[A2]
R9437	MT-GLAZE	2.7K	JA	1/16W	[A2]
R9438	MT-GLAZE	1.8K	JA	1/16W	[A2]
R9439	MT-GLAZE	10K	JA	1/16W	[A2]
R9440	MT-GLAZE	10K	JA	1/16W	[A2]
R9463	MT-GLAZE	10K	JA	1/16W	[C2]
R9464	MT-GLAZE	100K	JA	1/16W	[C2]
R9465	MT-GLAZE	10K	JA	1/16W	[B2]
R9466	MT-GLAZE	10K	JA	1/16W	[B2]
R9482	MT-GLAZE	10K	JA	1/16W	[C3]
R9484	MT-GLAZE	10K	JA	1/16W	[C2]
R9501	MT-GLAZE	82K	JA	1/16W	[F2]
R9504	MT-GLAZE	3.9K	JA	1/16W	[E2]
R9991	MT-GLAZE	0.000	ZA	1/16W	[C4]
R9999	MT-GLAZE	0.000	ZA	1/16W	[B3]
T9020	FILTER 4MHZ				[C3]
VC902	VARACTOR DI 1SV200-11TLC				[C3]

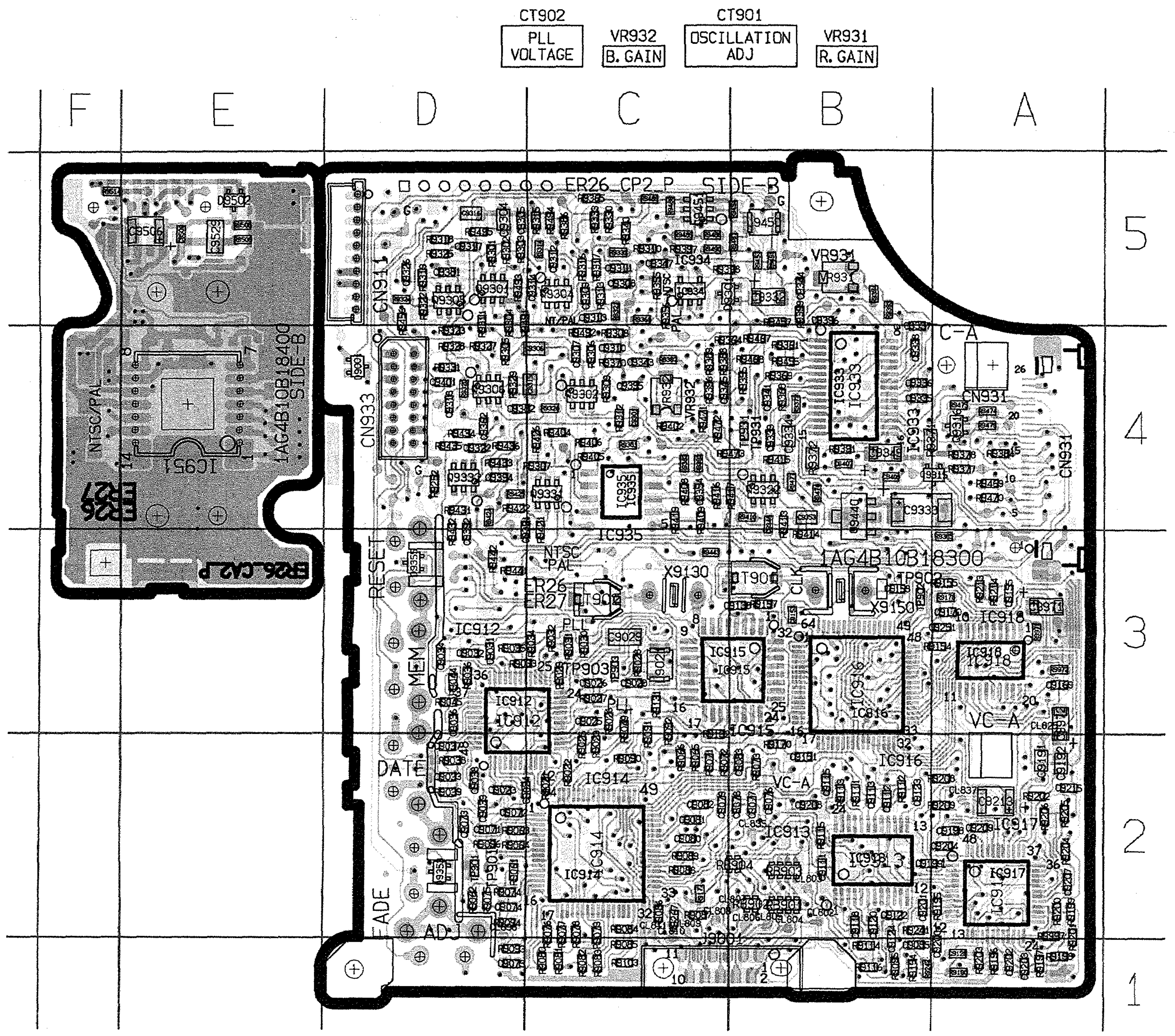
LEADLESS COMPONENT PARTS LOCATION GUIDE
PW1 BOARD (SIDE A)

C3005	ELECT	47U	M	6.3V	[B3]
C3006	ELECT	33U	M	10V	[B1]
C3007	ELECT	22U	M	16V	[B1]
C3008	ELECT	150U	M	10V	[C2]
C3009	ELECT	150U	M	10V	[B2]
C3010	ELECT	150U	M	10V	[C2]
C3014	ELECT	47U	M	16V	[C3]
C3015	ELECT	150U	M	10V	[B3]
C3016	ELECT	150U	M	10V	[B3]
C3032	ELECT	150U	M	10V	[A2]
L3001	INDUCTOR,AIR 10U				[C3]
L3002	INDUCTOR,47U				[C3]
L3003	INDUCTOR,AIR 18U				[B3]
L3004	INDUCTOR,AIR 33U				[B2]
L3005	INDUCTOR,AIR 33U				[C1]
L3006	INDUCTOR,AIR 33U				[B2]
L3009	INDUCTOR,AIR 18U				[C3]
L3010	INDUCTOR,200U				[B3]
L3011	INDUCTOR,200U				[C3]
L3012	HF CHOKE				[C3]

LEADLESS COMPONENT PARTS LOCATION GUIDE
AD1 BOARD (SIDE A)
For VM-EX280P, VM-EX370P

C2007	CERAMIC	2200P	K	50V	[F1]
C2010	CERAMIC	0.01U	K	25V	[F1]
C2013	CERAMIC	0.01U	K	25V	[F2]
C2107	CERAMIC	2200P	K	50V	[F2]
C2110	CERAMIC	0.01U	K	25V	[F2]
C2201	ELECT	47U	M	4V	[E1]
C2204	TA-SOLID	4.7U	M	6.3V	[F1]
C2206	TA-SOLID	4.7U	M	6.3V	[F1]
C2901	CERAMIC	0.1U	K	25V	[E2]
C2902	CERAMIC	0.1U	K	25V	[E2]
C2903	CERAMIC	0.033U	K	50V	[E2]
C2905	CERAMIC	0.018U	K	25V	[E2]
C2951	CERAMIC	0.1U	K	25V	[E1]
C2952	CERAMIC	0.1U	K	25V	[E1]
C2953	CERAMIC	0.033U	K	50V	[E1]
C2954	CERAMIC	0.047U	K	25V	[E1]
C2955	CERAMIC	0.018U	K	25V	[E1]
C2985	TA-SOLID	10U	M	4V	[E1]
IC201	IC LA7492W-TRM				[F2]
IC291	IC LA7471M-TRM				[E2]
R2002	MT-GLAZE	10K	JA	1/16W	[F1]
R2003	MT-GLAZE	33K	JA	1/16W	[F1]
R2005	MT-FILM	5.6K	DU	1/16W	[E2]
R2006	MT-GLAZE	1K	JA	1/16W	[F2]
R2102	MT-GLAZE	10K	JA	1/16W	[F2]
R2103	MT-GLAZE	33K	JA	1/16W	[F2]
R2105	MT-FILM	5.6K	DU	1/16W	[E2]
R2106	MT-GLAZE	1K	JA	1/16W	[F2]
R2201	MT-GLAZE	27K	JA	1/16W	[E2]
R2202	MT-GLAZE	47K	JA	1/16W	[E1]
R2210	MT-GLAZE	1K	JA	1/16W	[G1]
R2902	MT-GLAZE	6.8K	JA	1/16W	[E2]
R2903	MT-GLAZE	4.7K	JA	1/16W	[E2]
R2904	MT-GLAZE	10K	JA	1/16W	[E2]
R2907	MT-GLAZE	8.2K	JA	1/16W	[E2]
R2908	MT-GLAZE	39K	JA	1/16W	[E2]
R2909	MT-GLAZE	33K	JA	1/16W	[E2]
R2952	MT-GLAZE	6.8K	JA	1/16W	[E1]
R2953	MT-GLAZE	4.7K	JA	1/16W	[E1]
R2954	MT-GLAZE	10K	JA	1/16W	[E1]
R2957	MT-GLAZE	8.2K	JA	1/16W	[E1]
R2958	MT-GLAZE	39K	JA	1/16W	[E1]
R2959	MT-GLAZE	33K	JA	1/16W	[E1]
R2971	MT-GALZE	3.3K	JA	1/16W	[C1]
R2980	MT-GLAZE	1K	JA	1/16W	[E2]
R2981	MT-GLAZE	27K	JA	1/16W	[E2]
R2986	MT-GLAZE	0.000	ZA	1/16W	[E2]
R2988	MT-GLAZE	220K	JA	1/16W	[E1]
T2001	FILTER				[F2]
T2101	FILTER				[G2]
VR201	VR,SEMI,10K N				[E2]
VR211	VR,SEMI,10K N				[E2]
VR221	VR,SEMI,10K N				[D2]

CP2/CA2 BOARD (SIDE B)



CN933	
1	SCK
2	SO
3	SOUT3
4	SOUT2
5	CAM S
6	SIN2
7	SIN1
8	FADE+DATE
9	DATE BLK
10	SINO
11	C GND
12	CAM C
13	Y GND
14	CAM Y
15	MF REF
16	CAM CS

TO CP1

CN911	
1	NOT USED
2	-7.5V
3	UNREG
4	+5V(S)
5	+15V
6	+5V(M)
7	GND
8	GND
9	NOT USED
10	NOT USED

TO PW1

J9001	
1	CAM ADJ.3
2	LOAD
3	DA
4	EVR.CL
5	DO
6	CS
7	TEST1
8	$\overline{\text{CAM ADJ.1}}$
9	$\overline{\text{CAM ADJ.2}}$
10	ADJ.END
11	UNREG
12	VSUB
13	ID
14	PGL
15	GND
16	AGC.DET
17	CAMERA ON
18	IRIS.DET
19	GND
20	GND
21	CAMERA Y
22	CAMERA C

TO REMOCON

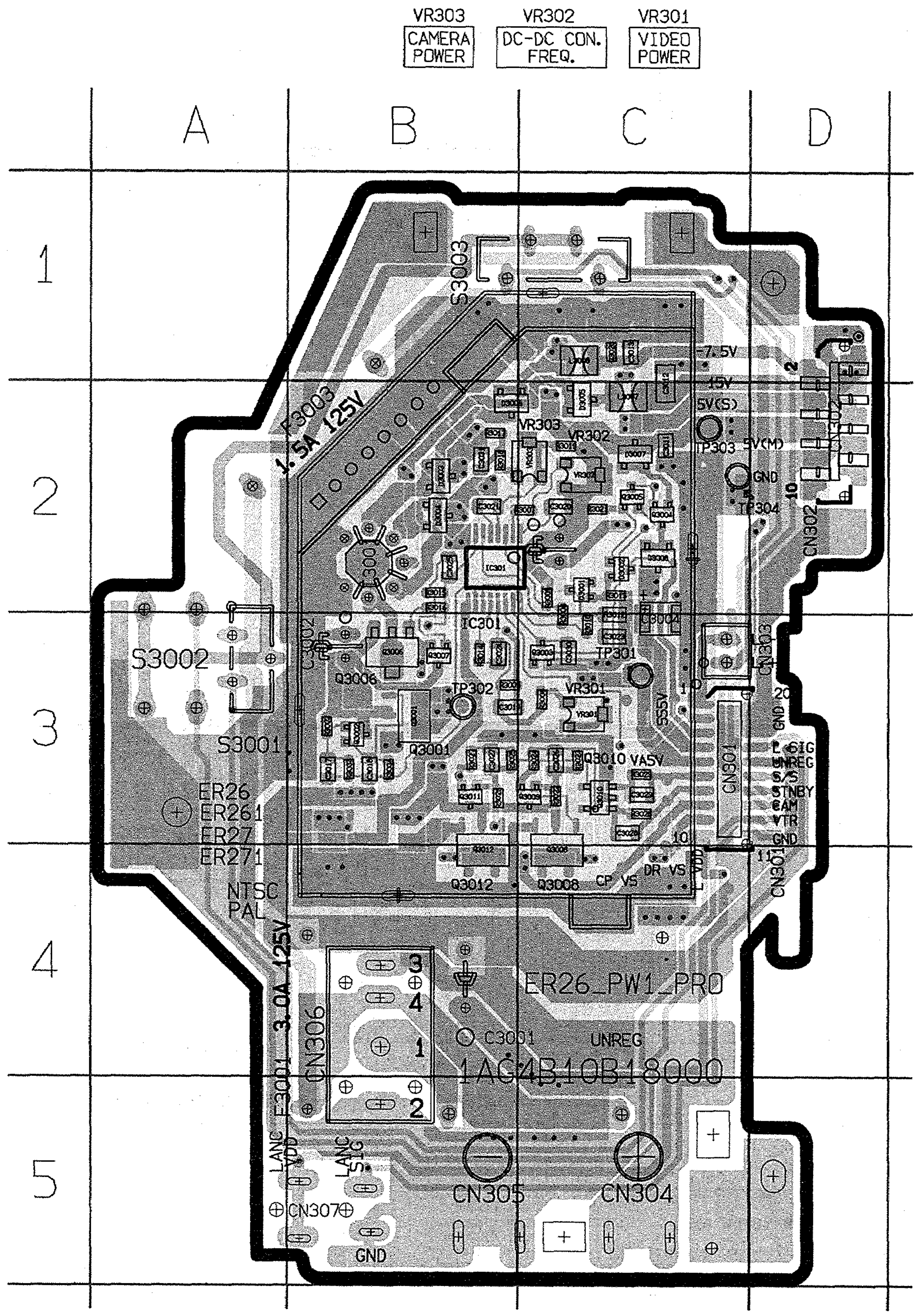
CN931	
1	A
2	A
3	B
4	B
5	DOUT
6	DIN
7	SCK
8	CS
9	FS 5V
10	F SENCS
11	FS GND
12	HALL OUT(-)
13	HALL IN(-)
14	HALL OUT(+)
15	HALL IN(+)
16	CONT+
17	DRIVE+
18	DRIVE-
19	CONT-
20	ZSENCS
21	ZS GND
22	ZS 5V
23	OUT4$(\overline{B})$
24	OUT3(B)
25	OUT1(A)
26	OUT2$(\overline{A})$

TO LENS

LEADLESS COMPONENT PARTS LOCATION GUIDE
PW1 BOARD (SIDE B)
⬚:VM-EX220P
☐:VM-EX280P, VM-EX370P

C3004	TA-SOLID	22U M	6.3V	[C3]
C3012	CERAMIC	1U Z	25V	[C2]
C3013	CERAMIC	1U Z	16V	[C1]
C3017	CERAMIC	100P J	50V	[B3]
C3018	CERAMIC	820P K	50V	[B3]
C3019	CERAMIC	2200P K	50V	[B3]
C3020	CERAMIC	330P J	50V	[C2]
C3021	CERAMIC	2200P K	50V	[B2]
C3023	CERAMIC	0.1U Z	25V	[C3]
C3024	CERAMIC	2200P K	50V	[B3]
C3025	CERAMIC	1000P K	50V	[B2]
C3026	CERAMIC	100P J	50V	[C3]
C3027	CERAMIC	100P J	50V	[B3]
C3028	CERAMIC	150P J	50V	[C3]
C3029	CERAMIC	150P J	50V	[C3]
C3030	CERAMIC	0.1U Z	25V	[C3]
C3031	CERAMIC	2200P K	50V	[B2]
D3001	DIODE DCF010-TL			[C2]
D3002	DIODE DCF010-TL			[C2]
D3003	DIODE SB07-03C-TB			[B2]
D3004	DIODE SB10-015C-TB			[B2]
D3005	DIODE DCB015-TB			[C2]
D3006	DIODE DCB015-TB			[B2]
D3007	ZENER DIODE RD4.7M-T1BB2			[C2]
D3008	ZENER DIODE RD4.3M-T1BB2			[C2]
IC301	IC MB3778PFV-G-BND-EF			[B2]
L3007	INDUCTOR,47U K			[C2]
L3008	INDUCTOR,47U K			[C1]
Q3001	TR FP106-TL			[B3]
Q3002	TR 2SD1819A-R-TX			[B3]
Q3003	TR DTC144WU-T106			[C3]
Q3004	TR DTC114EU-T106			[C2]
Q3004	TR 2SC4398-TL			[C2]
Q3005	TR 2SB1218A-R-TX			[C2]
Q3006	TR 2SB1302-S-TD			[B3]
Q3007	TR 2SD1819A-R-TX			[B3]
Q3008	TR FP101-TL			[C4]
Q3009	TR 2SD1819A-R-TX			[C3]
Q3010	TR FC104-TL			[C3]
Q3011	TR 2SD1819A-R-TX			[B3]
Q3012	TR FP101-TL			[B4]
R3002	MT-GLAZE	6.8K JA	1/16W	[B3]
R3003	MT-GLAZE	27K JA	1/16W	[B3]
R3004	MT-GLAZE	470 JA	1/16W	[B3]
R3005	MT-FILM	10K DU	1/16W	[B3]
R3006	MT-GLAZE	2.7K JA	1/16W	[C3]
R3007	MT-GLAZE	5.1K JA	1/16W	[C2]
R3008	MT-FILM	39K DD	1/16W	[C3]
R3009	MT-FILM	39K DD	1/16W	[C2]
R3010	MT-FILM	270K DD	1/16W	[C3]
R3012	MT-FILM	680K DD	1/10W	[C3]
R3013	MT-FILM	200K DD	1/16W	[C2]
R3014	MT-GLAZE	510 JA	1/16W	[B3]
R3015	MT-GLAZE	390 JA	1/16W	[B2]
R3016	MT-GLAZE	1K JA	1/16W	[B2]
R3017	MT-FILM	12K DU	1/16W	[B2]
R3018	MT-GLAZE	4.7K JA	1/16W	[B2]
R3019	MT-FILM	5.6K DU	1/16W	[C2]
R3020	MT-GLAZE	4.3K JA	1/16W	[C1]
R3021	MT-GLAZE	10K JA	1/16W	[C2]
R3022	MT-GLAZE	2.2K JA	1/16W	[C3]
R3023	MT-GLAZE	47K JA	1/16W	[C3]
R3024	MT-GLAZE	680 JA	1/16W	[C3]
R3025	MT-GLAZE	47K JA	1/16W	[B3]
R3026	MT-GLAZE	2.2K JA	1/16W	[B3]
R3027	MT-GLAZE	680 JA	1/16W	[B3]
R3028	MT-GLAZE	10K JA	1/16W	[C3]
R3029	MT-GLAZE	10K JA	1/16W	[C3]
VR301	VR,SEMI,1K N			[C3]
VR302	VR,SEMI,2.2K N			[C2]
VR303	VR,SEMI,2.2K N			[C2]

PW1 BOARD (SIDE B)



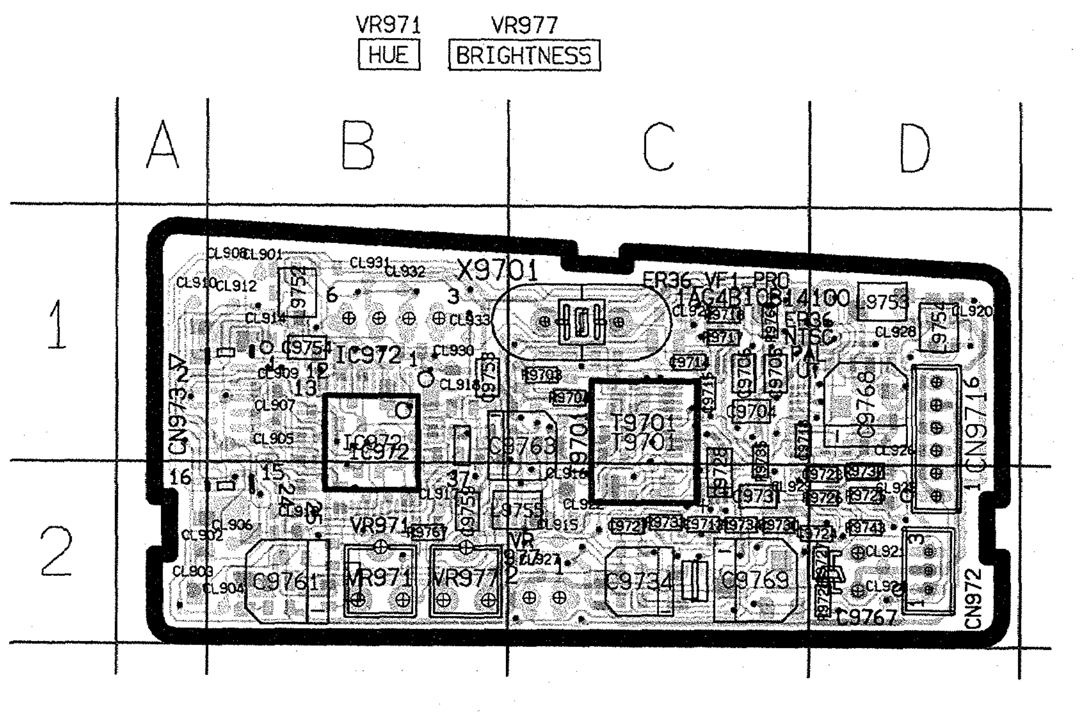
LEADLESS COMPONENT PARTS LOCATION GUIDE
CP2/CA2 BOARD (SIDE B)

C9023	CERAMIC	0.1U Z	25V	[D2]
C9024	CERAMIC	0.1U Z	25V	[D2]
C9025	CERAMIC	0.1U Z	25V	[C3]
C9026	CERAMIC	0.01U K	25V	[C3]
C9028	CERAMIC	100P J	50V	[C3]
C9029	CERAMIC	1U Z	16V	[C3]
C9031	CERAMIC	0.1U Z	25V	[D3]
C9032	CERAMIC	0.1U Z	25V	[D3]
C9034	CERAMIC	10P D	50V	[D3]
C9036	CERAMIC	0.1U Z	25V	[D3]
C9037	CERAMIC	0.1U Z	25V	[D2]
C9038	CERAMIC	0.1U Z	25V	[D2]
C9039	CERAMIC	0.1U Z	25V	[D2]
C9071	CERAMIC	1000P K	50V	[D2]
C9072	CERAMIC	0.1U Z	25V	[D2]
C9073	CERAMIC	1000P K	50V	[D2]
C9074	CERAMIC	0.1U Z	25V	[D2]
C9075	CERAMIC	1000P K	50V	[D1]
C9076	CERAMIC	0.1U Z	25V	[B2]
C9077	CERAMIC	0.1U Z	25V	[B2]
C9078	CERAMIC	0.1U Z	25V	[B2]
C9079	CERAMIC	0.1U Z	25V	[C2]
C9080	CERAMIC	0.1U Z	25V	[C2]
C9081	CERAMIC	0.1U Z	25V	[C2]
C9082	CERAMIC	0.1U Z	25V	[C2]
C9083	CERAMIC	0.1U Z	25V	[B2]
C9085	CERAMIC	1000P K	50V	[B1]
C9111	CERAMIC	0.022U Z	25V	[B2]
C9112	CERAMIC	18P J	50V	[B2]
C9115	CERAMIC	0.1U Z	25V	[B2]
C9118	CERAMIC	0.1U Z	25V	[B2]
C9120	CERAMIC	1000P K	50V	[B2]
C9122	CERAMIC	0.1U Z	25V	[B2]
C9123	CERAMIC	0.1U Z	25V	[B2]
C9138	CERAMIC	1000P K	50V	[B3]
C9151	CERAMIC	0.1U Z	25V	[B2]
C9153	CERAMIC	1000P K	50V	[B3]
C9158	CERAMIC	7P D	50V	[B3]
C9169	CERAMIC	0.1U Z	25V	[A3]
C9170	CERAMIC	0.1U Z	25V	[A3]
C9191	CERAMIC	0.47U Z	16V	[A2]
C9198	CERAMIC	0.1U Z	25V	[A2]
C9199	CERAMIC	0.1U Z	25V	[B2]
C9200	CERAMIC	0.1U Z	25V	[A1]
C9201	CERAMIC	0.1U Z	25V	[B2]
C9202	CERAMIC	0.1U Z	25V	[A1]
C9203	CERAMIC	0.1U Z	25V	[A1]
C9204	CERAMIC	1000P K	50V	[A2]
C9207	CERAMIC	0.1U Z	25V	[A2]
C9208	CERAMIC	1000P K	50V	[B2]
C9215	CERAMIC	0.1U Z	25V	[A2]
C9301	CERAMIC	0.1U Z	25V	[C4]
C9304	CERAMIC	0.1U Z	25V	[D5]
C9305	CERAMIC	0.1U Z	25V	[D5]
C9306	CERAMIC	1U Z	16V	[C4]
C9307	CERAMIC	0.1U Z	25V	[C4]
C9308	CERAMIC	2200P K	50V	[C5]
C9309	CERAMIC	2200P K	50V	[C5]
C9310	CERAMIC	0.1U Z	25V	[C4]
C9311	CERAMIC	270P J	50V	[C5]
C9312	CERAMIC	270P J	50V	[C5]
C9313	CERAMIC	0.1U Z	25V	[C5]
C9314	CERAMIC	0.1U Z	25V	[C5]
C9315	CERAMIC	1U Z	16V	[C4]
C9316	CERAMIC	1U Z	16V	[D5]
C9317	CERAMIC	0.01U K	25V	[D5]
C9318	CERAMIC	0.01U K	25V	[D4]
C9322	CERAMIC	0.1U Z	25V	[D4]
C9326	CERAMIC	0.01U K	25V	[D5]
C9332	TA-SOLID	10U M	6.3V	[B5]
C9333	TA-SOLID	15U M	16V	[B4]
C9334	CERAMIC	0.1U Z	25V	[B4]
C9335	CERAMIC	3300P K	50V	[B4]
C9336	CERAMIC	0.01U K	25V	[B4]
C9337	CERAMIC	0.01U K	25V	[B4]
C9338	CERAMIC	0.01U K	25V	[B4]
C9339	CERAMIC	0.01U K	25V	[B4]
C9341	CERAMIC	0.01U K	25V	[B4]
C9343	CERAMIC	0.1U Z	25V	[C4]
C9344	CERAMIC	0.1U Z	25V	[B5]
C9347	CERAMIC	0.1U Z	25V	[C5]
C9348	CERAMIC	0.1U Z	25V	[B4]
C9349	TA-SOLID	3.3U M	6.3V	[B4]
C9353	CERAMIC	1U Z	16V	[B4]
C9354	CERAMIC	0.1U Z	25V	[C4]
C9362	CERAMIC	47P J	50V	[D4]
C9381	CERAMIC	1800P K	50V	[D5]
C9382	CERAMIC	1800P K	50V	[D4]
C9391	CERAMIC	0.1U Z	25V	[D3]
C9392	CERAMIC	0.1U Z	25V	[D3]
C9394	CERAMIC	0.1U Z	25V	[D4]
C9396	CERAMIC	330P J	50V	[B5]
C9401	CERAMIC	0.1U Z	25V	[D4]
C9407	CERAMIC	8200P K	50V	[B4]
C9408	CERAMIC	8200P K	50V	[B4]
C9506	TA-SOLID	1U M	35V	[E1]
C9529	CERAMIC	1U Z	25V	[E1]
C9971	TA-SOLID	1U M	25V	[A3]
C9972	TA-SOLID	1U M	25V	[A3]
CT901	TRIMMER,20PF			[B3]
CT902	TRIMMER,30PF			[C3]
D9001	DIODE MA143A-TX			[D4]
D9301	DIODE MA141K-TX			[C5]
D9353	DIODE DAN202U-T106			[D2]
D9355	DIODE DAN202U-T106			[D3]
D9502	DIODE MA141K-TX			[F1]
IC912	IC CXA1392R-T4			[D3]
IC913	IC CXL1518N-T4			[B2]
IC914	IC CXA1391R-T6			[C2]
IC915	IC CXD1159Q-T4			[B3]
IC916	IC CXD1257AR-T6			[B3]
IC917	IC CXA1390AR-T4			[A2]
IC918	IC CXD1267N-T4			[A3]
IC933	IC MPC17A85VM-EL			[B4]
IC934	IC SC14S71FEL			[C5]
IC935	IC NJM3414M-T1			[C4]
L9021	INDUCTOR,12U J			[C3]
Q9301	TR FC101-TL			[D5]
Q9302	TR IMX1-T109			[C4]
Q9304	TR IMX1-T109			[C5]
Q9305	TR IMX1-T109			[D5]
Q9306	TR IMX1-T109			[D4]
Q9315	TR DTC115EU-T106			[A4]
Q9322	TR IMX1-T109			[B4]
Q9331	TR IMX1-T109			[C4]
Q9332	TR IMX1-T109			[D4]
Q9440	TR 2SB1121-T-TD			[B4]
R9022	MT-GLAZE	0.000 ZA	1/16W	[C2]
R9025	MT-GLAZE	82K JA	1/16W	[C2]
R9026	MT-GLAZE	10K JA	1/16W	[C3]
R9027	MT-GLAZE	1K JA	1/16W	[C3]
R9028	MT-GLAZE	1.8K JA	1/16W	[C3]
R9029	MT-FILM	12K DU	1/16W	[C3]
R9030	MT-FILM	18K DU	1/16W	[C3]
R9031	MT-GLAZE	18K JA	1/16W	[C3]
R9032	MT-GLAZE	15K JA	1/16W	[C3]
R9033	MT-GLAZE	3.3K JA	1/16W	[D3]
R9034	MT-GLAZE	33K JA	1/16W	[C3]
R9035	MT-GLAZE	47K JA	1/16W	[D3]
R9036	MT-GLAZE	10K JA	1/16W	[D3]
R9038	MT-GLAZE	18K JA	1/16W	[D2]
R9039	MT-GLAZE	33K JA	1/16W	[D2]
R9044	MT-GLAZE	27K JA	1/16W	[D3]
R9045	MT-GLAZE	22K JA	1/16W	[D3]
R9071	MT-FILM	12K DU	1/16W	[C2]
R9072	MT-FILM	27K DU	1/16W	[C2]
R9073	MT-GLAZE	22K JA	1/16W	[B2]
R9074	MT-GLAZE	16K JA	1/16W	[D2]
R9075	MT-GLAZE	18K JA	1/16W	[D2]
R9076	MT-GLAZE	15K JA	1/16W	[C2]
R9077	MT-GLAZE	18K JA	1/16W	[C2]
R9078	MT-GLAZE	56K JA	1/16W	[C2]
R9079	MT-GLAZE	56K JA	1/16W	[C2]
R9081	MT-GLAZE	0.000 ZA	1/16W	[C1]
R9082	MT-GLAZE	15K JA	1/16W	[C1]
R9083	MT-GLAZE	15K JA	1/16W	[C1]
R9084	MT-GLAZE	12K JA	1/16W	[C2]
R9085	MT-GLAZE	27K JA	1/16W	[C1]
R9088	MT-GLAZE	22K JA	1/16W	[C2]
R9089	MT-GLAZE	22K JA	1/16W	[C2]
R9090	MT-GLAZE	39K JA	1/16W	[C2]
R9091	MT-GLAZE	15K JA	1/16W	[C2]
R9092	MT-GLAZE	33K JA	1/16W	[C3]
R9096	MT-GLAZE	3.3K JA	1/16W	[D2]
R9103	MT-GLAZE	820 JA	1/16W	[C1]
R9111	MT-GLAZE	220 JA	1/16W	[B2]
R9112	MT-GLAZE	220 JA	1/16W	[B2]
R9115	MT-GLAZE	2.2 JA	1/16W	[B2]
R9131	MT-GLAZE	100 JA	1/16W	[C3]
R9132	MT-GLAZE	1M JA	1/16W	[C2]
R9155	MT-GLAZE	2.2K JA	1/16W	[A3]
R9157	MT-GLAZE	680 JA	1/16W	[B3]
R9170	MT-GLAZE	0.000 ZA	1/16W	[B2]
R9177	MT-GLAZE	0.000 ZA	1/16W	[C2]
R9190	MT-GLAZE	3.3 JA	1/16W	[A1]
R9194	MT-GLAZE	10K JA	1/16W	[B1]
R9195	MT-GLAZE	27K JA	1/16W	[A2]
R9196	MT-GLAZE	220 JA	1/16W	[A1]
R9197	MT-GLAZE	18K JA	1/16W	[A1]
R9198	MT-GLAZE	27K JA	1/16W	[A1]
R9199	MT-GLAZE	27K JA	1/16W	[A2]
R9200	MT-GLAZE	270 JA	1/16W	[A2]
R9201	MT-GLAZE	39K JA	1/16W	[A2]
R9202	MT-GLAZE	0.000 ZA	1/16W	[A2]
R9204	MT-GLAZE	6.8K JA	1/16W	[A2]
R9205	MT-GLAZE	330K JA	1/16W	[A2]
R9206	MT-GLAZE	12K JA	1/16W	[A2]
R9208	MT-GLAZE	33K JA	1/16W	[A2]
R9209	MT-GLAZE	12K JA	1/16W	[A2]
R9267	MT-GLAZE	1K JA	1/16W	[C2]
R9301	MT-GLAZE	39K JA	1/16W	[D5]
R9302	MT-GLAZE	2.7K JA	1/16W	[D5]
R9303	MT-GLAZE	1.5K JA	1/16W	[D5]
R9304	MT-GLAZE	22K JA	1/16W	[D5]
R9305	MT-GLAZE	1.2K JA	1/16W	[D4]
R9306	MT-GLAZE	1K JA	1/16W	[C4]
R9307	MT-GLAZE	0.000 ZA	1/16W	[C4]
R9308	MT-GLAZE	560 JA	1/16W	[C4]
R9309	MT-GLAZE	560 JA	1/16W	[C4]
R9310	MT-GLAZE	1M JA	1/16W	[C5]
R9311	MT-GLAZE	0.000 ZA	1/16W	[D5]
R9312	MT-GLAZE	2.2K JA	1/16W	[C4]
R9313	MT-GLAZE	560 JA	1/16W	[C5]
R9314	MT-GLAZE	560 JA	1/16W	[C5]
R9315	MT-GLAZE	2.7K JA	1/16W	[C5]
R9316	MT-GLAZE	1K JA	1/16W	[C5]
R9317	MT-GLAZE	1K JA	1/16W	[C5]
R9318	MT-GLAZE	5.6K JA	1/16W	[D5]
R9319	MT-GLAZE	1.5K JA	1/16W	[D5]
R9320	MT-GLAZE	1.5K JA	1/16W	[D4]
R9321	MT-GLAZE	2.7K JA	1/16W	[C5]
R9322	MT-GLAZE	2.2K JA	1/16W	[D5]
R9323	MT-GLAZE	1K JA	1/16W	[D4]
R9324	MT-GLAZE	470 JA	1/16W	[D5]
R9325	MT-GLAZE	1.5K JA	1/16W	[D5]
R9326	MT-GLAZE	2.2K JA	1/16W	[C4]
R9327	MT-GLAZE	1K JA	1/16W	[D4]
R9328	MT-GLAZE	5.6K JA	1/16W	[D4]
R9329	MT-GLAZE	470 JA	1/16W	[D4]
R9330	MT-GLAZE	8.2K JA	1/16W	[C5]
R9331	MT-GLAZE	1.5K JA	1/16W	[D4]
R9332	MT-GLAZE	3.3K JA	1/16W	[C5]
R9333	MT-GLAZE	3.3K JA	1/16W	[C5]
R9340	MT-GLAZE	8.2K JA	1/16W	[C5]
R9356	MT-GLAZE	0.000 ZA	1/16W	[C5]
R9361	MT-GLAZE	6.8K JA	1/16W	[B4]
R9364	MT-GLAZE	100K JA	1/16W	[C4]
R9365	MT-GLAZE	1K JA	1/16W	[C5]
R9366	MT-GLAZE	1K JA	1/16W	[C5]
R9368	MT-GLAZE	0.000 ZA	1/16W	[B4]
R9369	MT-GLAZE	0.000 ZA	1/16W	[B4]
R9370	MT-GLAZE	470 JA	1/16W	[C4]
R9371	MT-GLAZE	3.9 JA	1/10W	[B4]
R9372	MT-GLAZE	3.9 JA	1/10W	[B4]
R9377	MT-GLAZE	100K JA	1/16W	[A4]
R9378	MT-GLAZE	56K JA	1/16W	[A4]
R9379	MT-GLAZE	5.6K JA	1/16W	[B4]
R9381	MT-GLAZE	1K JA	1/16W	[C4]
R9382	MT-GLAZE	1K JA	1/16W	[C4]
R9383	MT-GLAZE	1K JA	1/16W	[C4]
R9384	MT-GLAZE	1K JA	1/16W	[A4]
R9385	MT-GLAZE	1K JA	1/16W	[A3]
R9388	MT-GLAZE	33K JA	1/16W	[C4]
R9389	MT-GLAZE	68K JA	1/16W	[C4]
R9391	MT-GLAZE	68K JA	1/16W	[B4]
R9392	MT-GLAZE	27K JA	1/16W	[C4]
R9393	MT-GLAZE	68K JA	1/16W	[B5]
R9394	MT-GLAZE	270K JA	1/16W	[B5]
R9395	MT-GLAZE	150K JA	1/16W	[B4]
R9396	MT-GLAZE	180K JA	1/16W	[C4]
R9397	MT-GLAZE	100K JA	1/16W	[C5]
R9398	MT-GLAZE	330K JA	1/16W	[C5]
R9399	MT-GLAZE	47K JA	1/16W	[B5]
R9402	MT-GLAZE	39K JA	1/16W	[C4]
R9404	MT-GLAZE	4.7K JA	1/16W	[C4]
R9405	MT-GLAZE	4.7K JA	1/16W	[C4]
R9406	MT-GLAZE	4.7K JA	1/16W	[C4]
R9408	MT-GLAZE	680K JA	1/16W	[C4]
R9409	MT-GLAZE	680 JA	1/16W	[C4]
R9413	MT-GLAZE	100K JA	1/16W	[B4]
R9414	MT-GLAZE	18K JA	1/16W	[B3]
R9415	MT-GLAZE	150K JA	1/16W	[B4]
R9416	MT-GLAZE	5.6K JA	1/16W	[C4]
R9417	MT-GLAZE	15K JA	1/16W	[C4]
R9419	MT-GLAZE	10K JA	1/16W	[C4]
R9421	MT-GLAZE	2.7K JA	1/16W	[C3]
R9422	MT-GLAZE	3.9K JA	1/16W	[D4]
R9424	MT-GLAZE	560 JA	1/16W	[D4]
R9425	MT-GLAZE	560 JA	1/16W	[D4]
R9426	MT-GLAZE	2.2K JA	1/16W	[C4]
R9431	MT-GLAZE	1.2K JA	1/16W	[D4]
R9432	MT-GLAZE	3.9K JA	1/16W	[D3]
R9433	MT-GLAZE	470 JA	1/16W	[D4]
R9434	MT-GLAZE	560 JA	1/16W	[D4]
R9435	MT-GLAZE	560 JA	1/16W	[D4]
R9436	MT-GLAZE	2.2K JA	1/16W	[D4]
R9441	MT-GLAZE	1K JA	1/16W	[D3]
R9442	MT-GLAZE	1K JA	1/16W	[D3]
R9443	MT-GLAZE	1K JA	1/16W	[C3]
R9456	MT-GLAZE	100K JA	1/16W	[D5]
R9457	MT-GLAZE	47K JA	1/16W	[B5]
R9467	MT-GLAZE	100K JA	1/16W	[B4]
R9468	MT-GLAZE	100K JA	1/16W	[B4]
R9469	MT-GLAZE	1K JA	1/16W	[A4]
R9470	MT-GLAZE	1K JA	1/16W	[A4]
R9471	MT-GLAZE	3.3K JA	1/16W	[C4]
R9472	MT-GLAZE	10K JA	1/16W	[C4]
R9473	MT-GLAZE	10K JA	1/16W	[B4]
R9474	MT-GLAZE	56K JA	1/16W	[A4]
R9476	MT-GLAZE	10K JA	1/16W	[B4]
R9477	MT-GLAZE	12K JA	1/16W	[B4]
R9479	MT-GLAZE	100K JA	1/16W	[A4]
R9492	MT-GLAZE	0.000 ZA	1/16W	[C4]
R9508	MT-GLAZE	100K JA	1/16W	[F1]
R9509	MT-GLAZE	100K JA	1/16W	[F1]
R9971	MT-GLAZE	3.9 JA	1/16W	[A3]
R9972	MT-GLAZE	3.9 JA	1/16W	[A3]
RB901	R-NETWORK 470X4		0.063W	[B2]
RB902	R-NETWORK 470X2		0.063W	[B2]
RB903	R-NETWORK 10KX4		0.063W	[B2]
RB904	R-NETWORK 10KX2		0.063W	[B2]
TP903	TERMINAL,TESTPIN			[C3]
VR931	VR,SEMI,220K N			[B5]
VR932	VR,SEMI,100K N			[C4]

LEADLESS COMPONENT PARTS LOCATION GUIDE
AD1 BOARD (SIDE B)
For VM-EX280P, VM-EX370P

C2001	TA-SOLID	4.7U M	4V	[C1]
C2003	TA-SOLID	4.7U M	4V	[C1]
C2004	TA-SOLID	1U M	16V	[B1]
C2005	TA-SOLID	10U M	4V	[B1]
C2006	TA-SOLID	4.7U M	4V	[B1]
C2008	TA-SOLID	4.7U M	4V	[B1]
C2011	CERAMIC	0.047U K	25V	[B1]
C2012	CERAMIC	0.033U K	50V	[B1]
C2101	TA-SOLID	4.7U M	4V	[C1]
C2103	TA-SOLID	4.7U M	4V	[C2]
C2104	TA-SOLID	1U M	16V	[B2]
C2105	TA-SOLID	10U M	4V	[B2]
C2106	TA-SOLID	4.7U M	4V	[B2]
C2108	TA-SOLID	4.7U M	4V	[B2]
C2111	CERAMIC	0.047U K	25V	[B2]
C2112	CERAMIC	0.033U K	50V	[B1]
C2113	TA-SOLID	0.47U M	25V	[B2]
C2202	TA-SOLID	10U M	4V	[C2]
C2203	CERAMIC	1U Z	16V	[A2]
C2204	TA-SOLID	4.7U M	6.3V	[F1]
C2205	TA-SOLID	6.8U M	6.3V	[C1]
C2207	TA-SOLID	4.7U M	4V	[B2]
C2401	TA-SOLID	1U M	16V	[A2]
C2501	TA-SOLID	1U M	16V	[A2]
C2904	CERAMIC	0.047U K	25V	[C2]
C2906	CERAMIC	0.01U K	25V	[C2]
C2907	CERAMIC	0.018U K	50V	[C2]
C2908	CERAMIC	0.027U K	25V	[C2]
C2909	CERAMIC	0.027U K	25V	[C2]
C2910	CERAMIC	470P J	50V	[C2]
C2911	TA-SOLID	1U M	16V	[C2]
C2912	CERAMIC	0.01U K	25V	[D1]
C2913	CERAMIC	0.01U K	25V	[D1]
C2914	CERAMIC	0.022U K	25V	[D1]
C2956	CERAMIC	0.01U K	25V	[C1]
C2957	CERAMIC	0.018U K	50V	[C1]
C2958	CERAMIC	0.027U K	25V	[C1]
C2959	CERAMIC	0.027U K	25V	[C1]
C2960	CERAMIC	470P J	50V	[C1]
C2961	TA-SOLID	1U M	16V	[C1]
C2962	CERAMIC	0.01U K	25V	[C1]
C2963	CERAMIC	0.01U K	25V	[C1]
C2964	CERAMIC	0.022U K	25V	[C1]
C2965	CERAMIC	0.01U K	25V	[C1]
C2966	CERAMIC	0.01U K	25V	[D1]
C2967	CERAMIC	0.022U K	25V	[D1]
C2980	CERAMIC	0.022U K	25V	[C2]
C2981	CERAMIC	0.01U K	25V	[C2]
C2982	CERAMIC	0.01U K	25V	[C2]
C2983	CERAMIC	0.01U K	25V	[C2]
C2984	TA-SOLID	2.2U M	10V	[C2]
C2986	CERAMIC	1000P K	50V	[D1]
C2988	CERAMIC	1U Z	16V	[C2]
Q2203	TR DTA144EU-T106			[B1]
Q2204	TR DTC144WU-T106			[B2]
Q2205	TR DTA144EU-T106			[B2]
Q2206	TR DTC144EU-T106			[B1]
Q2207	TR DTC144EU-T106			[B1]
Q2208	TR 2SD1819A-R-TX			[B1]
Q2209	TR 2SD1819A-R-TX			[B2]
Q2210	TR 2SD1819A-R-TX			[B1]
Q2211	TR DTA144TU-T106			[A2]
Q2212	TR DTC144TU-T106			[A2]
Q2213	TR 2SD1819A-R-TX			[A2]
Q2221	TR 2SA1745-6-TL			[A1]
Q2401	TR 2SD1819A-R-TX			[A2]
Q2501	TR 2SD1819A-R-TX			[A2]
Q2962	TR 2SD1819A-R-TX			[C1]
Q2963	TR 2SB1218A-R-TX			[D1]
Q2964	TR 2SD1819A-R-TX			[D1]
Q2980	TR DTC144EU-T106			[C1]
R2004	MT-GLAZE	1.5M JA	1/16W	[B1]
R2007	MT-GLAZE	1K JA	1/16W	[B2]
R2104	MT-GLAZE	1.5M JA	1/16W	[B2]
R2107	MT-GLAZE	1K JA	1/16W	[B2]
R2204	MT-FILM	5.6K DU	1/16W	[D2]
R2208	MT-GLAZE	10K JA	1/16W	[B1]
R2209	MT-GLAZE	10K JA	1/16W	[B2]
R2211	MT-GLAZE	10K JA	1/16W	[B2]
R2212	MT-GLAZE	10K JA	1/16W	[A2]
R2213	MT-GLAZE	10K JA	1/16W	[A2]
R2221	MT-FILM	22K DU	1/16W	[B1]
R2222	MT-GLAZE	10K JA	1/16W	[A1]
R2251	MT-GLAZE	0.000 ZA	1/16W	[B2]
R2401	MT-GLAZE	1K JA	1/16W	[B2]
R2402	MT-GLAZE	1K JA	1/16W	[B2]
R2408	MT-GLAZE	100K JA	1/16W	[B2]
R2501	MT-GLAZE	1K JA	1/16W	[B2]
R2502	MT-GLAZE	1K JA	1/16W	[B2]
R2508	MT-GLAZE	100K JA	1/16W	[A2]
R2905	MT-GLAZE	8.2K JA	1/16W	[C2]
R2906	MT-GLAZE	12K JA	1/16W	[C2]
R2912	MT-GLAZE	6.8K JA	1/16W	[D1]
R2913	MT-GLAZE	6.8K JA	1/16W	[D1]
R2914	MT-GALZE	3.3K JA	1/16W	[D1]
R2915	MT-GLAZE	390 JA	1/16W	[D1]
R2916	MT-GALZE	3.3K JA	1/16W	[D1]
R2955	MT-GLAZE	8.2K JA	1/16W	[C1]
R2956	MT-GLAZE	12K JA	1/16W	[C1]
R2962	MT-GLAZE	6.8K JA	1/16W	[C1]
R2963	MT-GLAZE	6.8K JA	1/16W	[C1]
R2964	MT-GALZE	3.3K JA	1/16W	[C1]
R2965	MT-GLAZE	390 JA	1/16W	[C1]
R2966	MT-GALZE	3.3K JA	1/16W	[C1]
R2967	MT-GLAZE	12K JA	1/16W	[C1]
R2968	MT-GLAZE	12K JA	1/16W	[D1]
R2969	MT-GLAZE	6.8K JA	1/16W	[D1]
R2970	MT-GLAZE	270 JA	1/16W	[D1]
R2971	MT-GALZE	3.3K JA	1/16W	[C1]
R2982	MT-GLAZE	150K JA	1/16W	[C2]
R2983	MT-GLAZE	150K JA	1/16W	[C2]
R2984	MT-GLAZE	150K JA	1/16W	[C2]

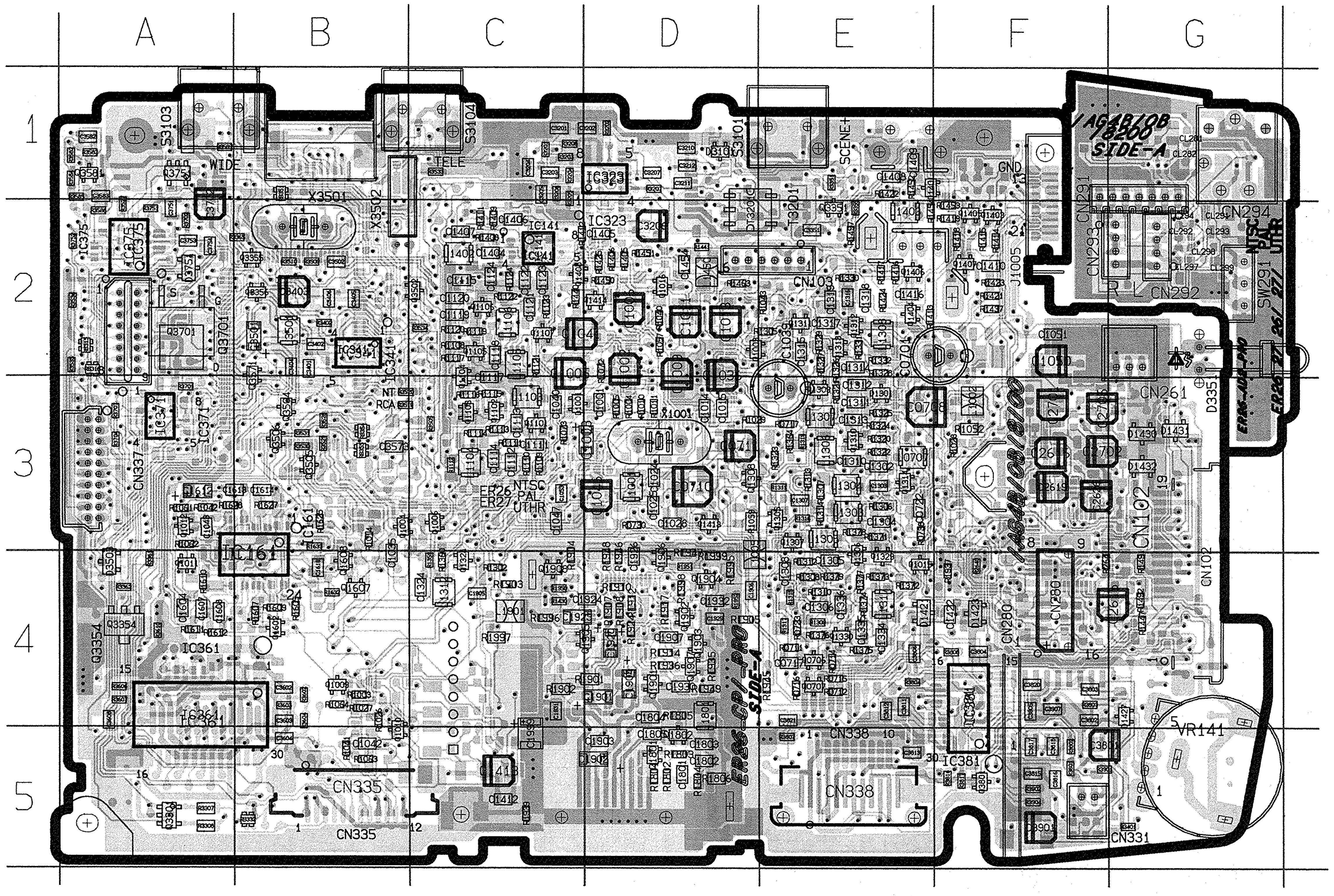
VF1 BOARD (SIDE A)【VM-EX370P】



LEADLESS COMPONENT PARTS LOCATION GUIDE
VF1 BOARD (SIDE A)
For VM-EX370P

C9704	CERAMIC	0.068U K	25V	[C1]
C9705	CERAMIC	0.068U K	25V	[C1]
C9706	CERAMIC	0.068U K	25V	[C1]
C9712	CERAMIC	6800P K	50V	[C2]
C9714	CERAMIC	56P J	50V	[C1]
C9715	CERAMIC	0.01U K	25V	[C1]
C9718	CERAMIC	0.1U Z	25V	[C1]
C9723	CERAMIC	0.1U Z	25V	[D2]
C9724	CERAMIC	0.1U Z	25V	[D2]
C9727	CERAMIC	0.1U Z	25V	[C2]
C9728	TA-SOLID	2.2U M	10V	[C2]
C9731	CERAMIC	1U Z	16V	[C2]
C9734	ELECT	4.7U M	25V	[C2]
C9753	CERAMIC	1U Z	16V	[B1]
C9754	CERAMIC	1U Z	16V	[B1]
C9759	CERAMIC	1U Z	16V	[B2]
C9761	ELECT	10U M	16V	[B2]
C9763	ELECT	10U M	16V	[C1]
C9768	ELECT	33U M	10V	[D1]
C9769	ELECT	47U M	6.3V	[C2]
IC972	IC CXD2403R-T4			[B1]
L9752	HF CHOKE			[B1]
L9753	HF CHOKE			[D1]
L9754	HF CHOKE			[D1]
L9755	COIL,INDUCTOR 8.2U J			[C2]
R9703	MT-GLAZE	8.2K JA	1/16W	[C1]
R9704	MT-GLAZE	5.6K JA	1/16W	[C1]
R9725	MT-GLAZE	22K JA	1/16W	[D2]
R9726	MT-GLAZE	22K JA	1/16W	[D2]
R9727	MT-GLAZE	27K JA	1/16W	[D2]
R9728	MT-GLAZE	22K JA	1/16W	[D2]
R9730	MT-GLAZE	1K JA	1/16W	[C2]
R9733	MT-GLAZE	22K JA	1/16W	[C2]
R9734	MT-GLAZE	22K JA	1/16W	[C2]
R9735	MT-GLAZE	560K JA	1/16W	[C2]
R9737	MT-GLAZE	75 JA	1/16W	[D2]
R9743	MT-GLAZE	75 JA	1/16W	[D2]
R9768	MT-GLAZE	1.5K JA	1/16W	[C1]
T9701	FILTER,BP 4.43MHZ			[C1]

CP1/AD2 BOARD (SIDE A)



	CN337	
	1	NOT USED
	2	VTR ON
	3	CAM ON
	4	S/S VF 5V
	5	VA 5V
	6	CAP PWM
	7	DRUM PWM
	8	CAP VS
	9	DRUM VS
For VM-EX220P	10	NOT USED
For VM-EX280P For VM-EX370P	10	LANC VDD
	11	GND
	12	VTR PW SW
	13	CAM PW SW
	14	STBY SW
	15	S/S SW
	16	UNREG
For VM-EX220P	17	NOT USED
For VM-EX280P For VM-EX370P	17	LANC SIG
	18	GND
	19	GND
	20	UNREG GND

TO PW1

CN335	
1	CASS IN SW
2	MP 5V
3	REEL LED
4	REC PROOF
5	GND
6	MP/ME
7	Hi-8
8	T REEL
9	TAPE END
10	S REEL
11	TAPE LED
12	TAPE TOP

TO MECHA

CN102		
1	AUDIO GND	
2	AUDIO OUT	For VM-EX220P
2	AUDIO L OUT	For VM-EX280P For VM-EX370P
3	NOT USED	For VM-EX220P
3	AUDIO R OUT	For VM-EX280P For VM-EX370P
4	LINE IN/OUT	
5	GND	
6	NOT USED	
7	NOT USED	
8	NOT USED	
9	+B	
10	NOT USED	
11	NOT USED	
12	NOT USED	
13	NOT USED	
14	NOT USED	
15	NOT USED	
16	NOT USED	
17	VIDEO OUT	
18	VIDEO GND	
19	NOT USED	

TO TB2

CN280	
1	AUDIO R LINE IN
2	AUDIO L OUT
3	AUDIO R OUT
4	AUDIO GND
5	AUDIO GND
6	PB RF AUDIO
7	AUDIO MUTE
8	PB/REC
9	REC AUDIO
10	NOT USED
11	AUDIO CAM/LINE
12	FADE
13	RF SW1
14	FSC
15	V/A 5V
16	AUDIO L LINE IN

TO AD1

CN331	
1	LI B
2	LI GND

TO LI BATTERY

CN338	
1	DRUM COM
2	FG(+)
3	FG COM
4	DRUM V
5	DRUM U
6	DRUM W
7	PG(+)
8	H GND
9	NOT USED
10	H VCC

TO CYLINDER

CN261	
1	MIC VCC
2	MIC AMP OUT
6	AUDIO GND

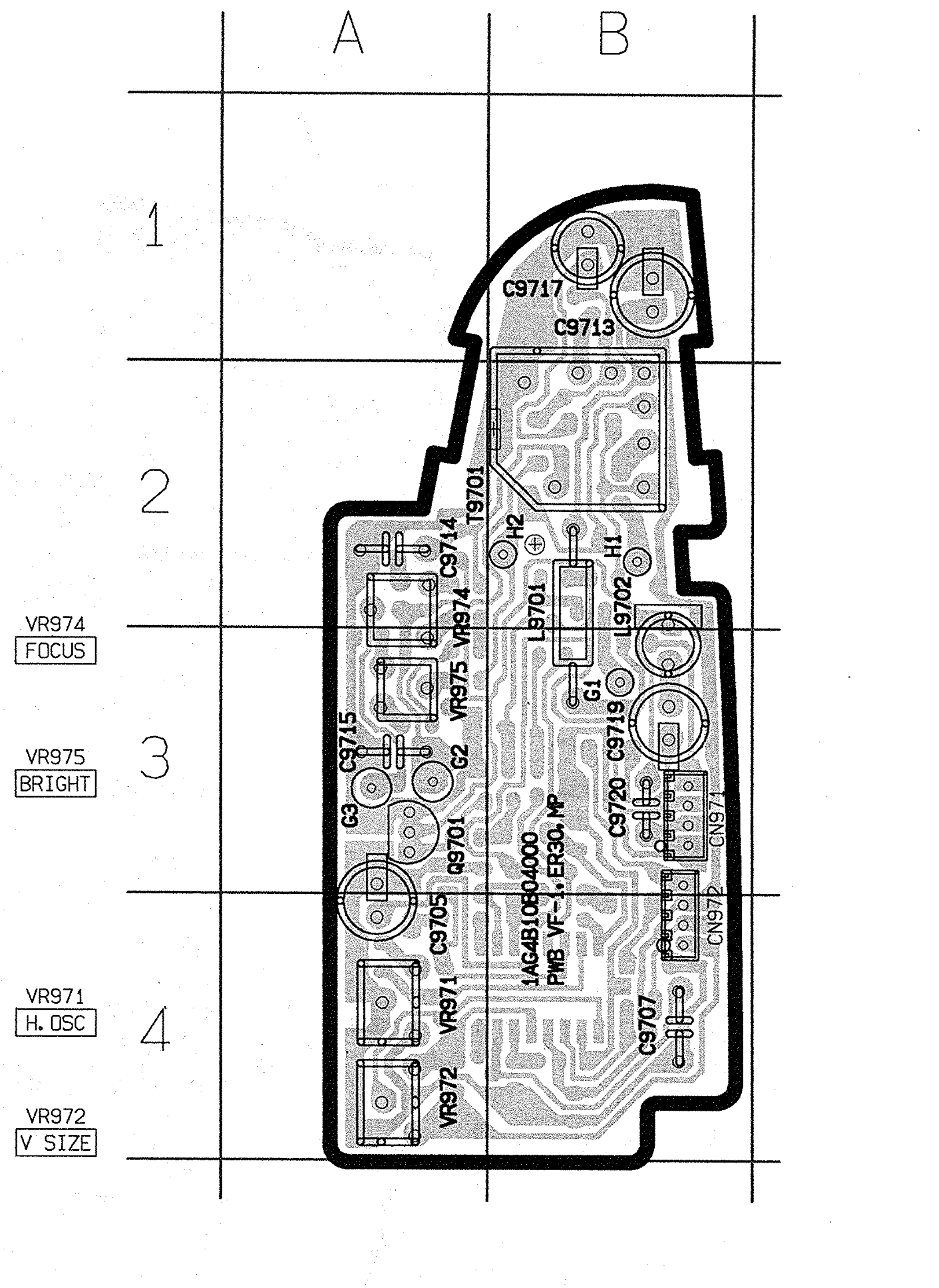
CN294 (VM-EX220P)

CN294	
1	EXT MIC GND
2	EXT MIC
6	INT MIC

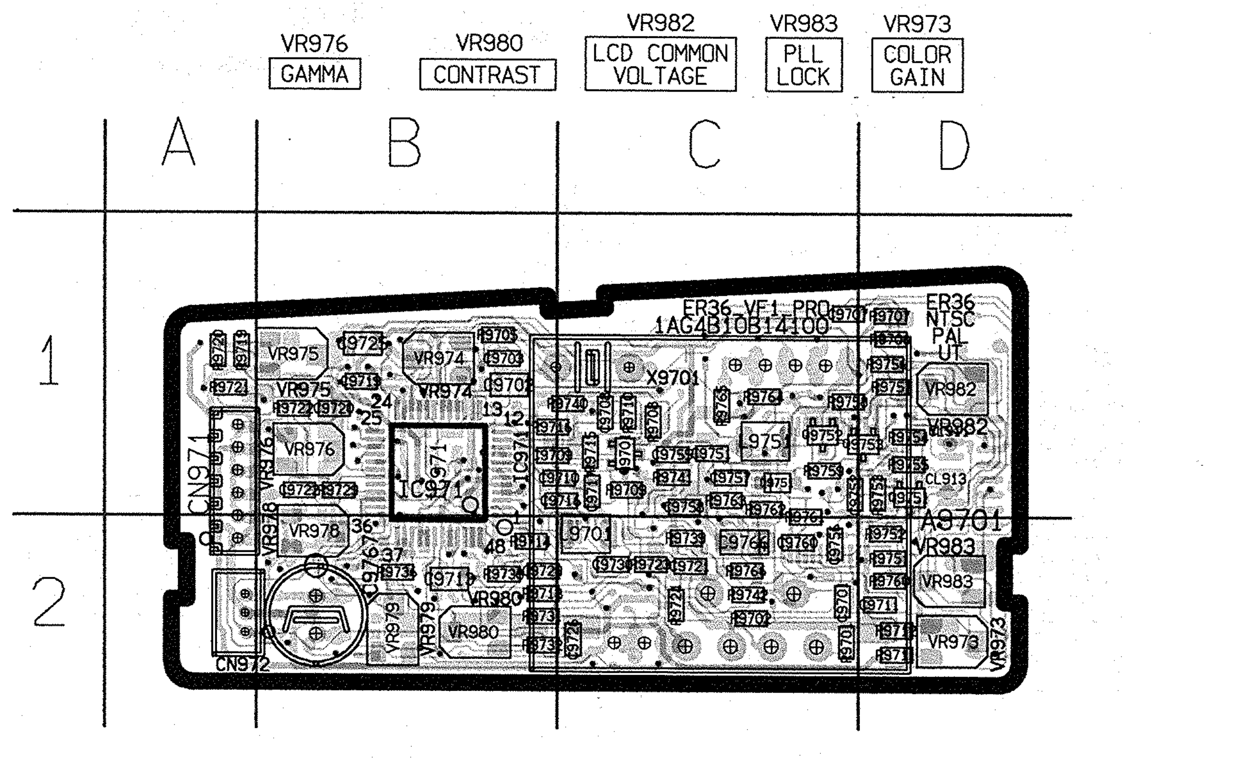
CN294 (VM-EX280P, 370P)

CN294	
1	EXT MIC GND
2	EXT MIC
6	INT MIC
3	EXT MIC OUT R

VF1 BOARD (SIDE A) 【VM-EX220P/280P】



VF1 BOARD (SIDE B) 【VM-EX370P】



LEADLESS COMPONENT PARTS LOCATION GUIDE
CP1/AD2 BOARD (SIDE A)
⠿:VM-EX220P ☐:VM-EX280P
▨:VM-EX370P

C0708	ELECT	47U M	4V	[E3]	
C0710	ELECT	47U M	4V	[D3]	
C0711	ELECT	22U M	6.3V	[D3]	
C0717	CERAMIC	10P D	50V	[E4]	
C1001	CERAMIC	220P J	50V	[D3]	
C1002	ELECT	22U M	6.3V	[D3]	
C1005	ELECT	10U M	16V	[C3]	
C1006	ELECT	10U M	16V	[D2]	
C1009	ELECT	10U M	16V	[D3]	
C1011	ELECT	22U M	6.3V	[D2]	
C1013	ELECT	10U M	16V	[D2]	
C1014	CERAMIC	220P J	50V	[D3]	
C1015	CERAMIC	0.47U Z	25V	[D3]	
C1028	CERAMIC	1000P K	50V	[D3]	
C1035	CERAMIC	100P J	50V	[B4]	
C1040	CERAMIC	1U Z	16V	[C3]	
C1041	ELECT	10U M	16V	[C2]	
C1042	CERAMIC	1000P K	50V	[B5]	
C1043	CERAMIC	330P J	50V	[A3]	
C1046	ELECT	22U M	6.3V	[D3]	
C1050	ELECT	22U M	6.3V	[F2]	
C1051	CERAMIC	1U Z	16V	[F2]	
C1053	CERAMIC	1000P K	50V	[C3]	
C1111	CERAMIC	120P J	50V	[C3]	
C1112	CERAMIC	100P J	50V	[C3]	
C1113	CERAMIC	27P J	50V	[C3]	
C1114	CERAMIC	22P J	50V	[C3]	
C1115	CERAMIC	0.1U Z	25V	[C2]	
C1117	CERAMIC	15P J	50V	[C3]	
C1118	CERAMIC	47P J	50V	[C2]	
C1119	CERAMIC	100P J	50V	[C2]	
C1120	CERAMIC	47P J	50V	[C2]	
C1121	CERAMIC	39P J	50V	[C2]	
C1122	CERAMIC	10P D	50V	[C2]	
C1123	CERAMIC	10P D	50V	[C2]	
C1124	CERAMIC	68P J	50V	[C2]	
C1302	CERAMIC	330P J	50V	[E3]	
C1303	CERAMIC	18P J	50V	[E3]	⠿▨
C1304	CERAMIC	110P J	50V	[E3]	
C1304	CERAMIC	180P J	50V	[E3]	☐
C1307	CERAMIC	75P J	50V	[E3]	
C1308	CERAMIC	0.01U K	50V	[E4]	
C1310	CERAMIC	0.01U K	50V	[E3]	
C1311	CERAMIC	15P J	50V	[E3]	
C1312	CERAMIC	0.01U K	50V	[E3]	
C1313	CERAMIC	2200P K	50V	[E3]	
C1314	CERAMIC	5P C	50V	[E3]	
C1317	CERAMIC	22P J	50V	[E2]	
C1318	CERAMIC	33P J	50V	[E2]	
C1319	CERAMIC	0.1U Z	25V	[E2]	
C1324	CERAMIC	270P J	50V	[C4]	
C1410	CERAMIC	1000P K	50V	[F2]	
C1412	CERAMIC	0.01U K	50V	[C5]	
C1604	CERAMIC	1U Z	16V	[A4]	
C1607	CERAMIC	1000P K	50V	[A4]	
C1608	CERAMIC	1000P K	50V	[A4]	
C1612	TA-SOLID	4.7U M	4V	[A3]	
C1613	CERAMIC	1000P K	50V	[B3]	
C1614	CERAMIC	110P J	50V	[B3]	
C1801	CERAMIC	100P J	50V	[D5]	
C1802	CERAMIC	150P J	50V	[D5]	
C1803	CERAMIC	150P J	50V	[D5]	
C1804	CERAMIC	0.01U K	50V	[D5]	
C1805	CERAMIC	0.1U Z	25V	[D5]	
C1901	TA-SOLID	6.8U M	6.3V	[D4]	
C1902	TA-SOLID	6.8U M	6.3V	[D5]	
C1903	CERAMIC	0.01U K	50V	[D5]	
C1904	TA-SOLID	6.8U M	6.3V	[D4]	
C1905	CERAMIC	1000P K	50V	[C4]	
C1906	CERAMIC	1000P K	50V	[D4]	
C1907	CERAMIC	4700P K	50V	[D4]	
C1920	TA-SOLID	6.8U M	6.3V	[D4]	
C1924	CERAMIC	0.1U Z	25V	[D4]	
C1926	CERAMIC	1000P K	50V	[D4]	
C1929	CERAMIC	120P J	50V	[D4]	
C1930	CERAMIC	1000P K	50V	[D4]	
C1999	TA-SOLID	22U M	6.3V	[C5]	
C2615	ELECT	10U M	16V	[G4]	
C2616	ELECT	1U M	50V	[F3]	
C2619	ELECT	4.7U M	25V	[F3]	
C2626	ELECT	4.7U M	25V	[F3]	
C2701	ELECT	22U M	6.3V	[F3]	
C2702	ELECT	10U M	16V	[F3]	
C2705	ELECT	10U M	16V	[F3]	
C3201	CERAMIC	100P J	50V	[C1]	
C3202	CERAMIC	1U Z	16V	[D1]	
C3203	CERAMIC	2200P K	50V	[C1]	
C3204	CERAMIC	1U Z	16V	[C1]	
C3205	CERAMIC	100P J	50V	[C2]	
C3206	ELECT	22U M	6.3V	[D2]	
C3207	CERAMIC	0.1U Z	25V	[D1]	
C3211	CERAMIC	100P J	50V	[D1]	
C3351	CERAMIC	0.1U Z	25V	[E2]	
C3401	CERAMIC	1U Z	16V	[B3]	
C3402	CERAMIC	0.1U Z	25V	[B2]	
C3403	ELECT	22U M	6.3V	[B2]	
C3404	CERAMIC	0.1U Z	25V	[B3]	
C3405	CERAMIC	0.1U Z	25V	[B2]	
C3406	CERAMIC	0.1U Z	25V	[B2]	
C3501	TA-SOLID	4.7U M	6.3V	[B2]	
C3502	CERAMIC	1U Z	16V	[B2]	
C3573	CERAMIC	0.1U Z	25V	[B3]	
C3582	CERAMIC	2200P J	50V	[A1]	▨
C3583	CERAMIC	0.015U K	50V	[A2]	▨
C3602	CERAMIC	0.1U Z	25V	[B4]	
C3603	CERAMIC	0.1U Z	25V	[B5]	
C3604	CERAMIC	0.1U Z	25V	[B5]	
C3608	CERAMIC	0.1U Z	25V	[A5]	
C3751	CERAMIC	0.047U Z	25V	[A2]	⠿▨
C3753	CERAMIC	1000P K	50V	[A2]	⠿▨
C3754	CERAMIC	1000P K	50V	[A2]	⠿▨
C3801	ELECT	22U M	6.3V	[F5]	
C3802	CERAMIC	0.1U Z	25V	[F5]	
C3803	CERAMIC	1U Z	16V	[F4]	
C3804	CERAMIC	0.033U K	50V	[F4]	
C3805	CERAMIC	0.1U Z	25V	[F4]	
C3806	CERAMIC	3300P K	50V	[E4]	
C3811	CERAMIC	1500P K	50V	[E4]	
C3812	CERAMIC	1500P K	50V	[E4]	
C3813	CERAMIC	1500P K	50V	[E5]	
C3815	CERAMIC	0.033U K	50V	[F5]	
C3816	CERAMIC	0.033U K	50V	[F5]	
C3817	CERAMIC	0.1U Z	25V	[F5]	
C3818	CERAMIC	0.1U Z	25V	[F5]	
C3820	CERAMIC	1U Z	16V	[F4]	
C3901	ELECT	22U M	6.3V	[F5]	
C3907	CERAMIC	0.1U Z	25V	[F4]	
D1001	DIODE	DSH015-TL		[C3]	
D1301	DIODE	1SS302-TE85L		[E3]	
D1427	DIODE	DAN202U-T106		[G4]	
D3101	DIODE	DAN202U-T106		[D1]	
D3503	ZENER DIODE	MA3082WA-TX		[A4]	
D3751	ZENER DIODE	MA3082WA-TX		[A2]	⠿▨
IC161	IC	CXA1203N-T4		[B4]	
IC323	IC	BA7046F-T1		[D1]	
IC341	IC	S-8420BF-T1		[B2]	
IC361	IC	LB1881MMT-TP-T1		[A4]	
IC375	IC	TL1596DB-T1		[A2]	⠿▨
IC381	IC	LB1888V-TRM		[F4]	
L1103	INDUCTOR,10U J			[C3]	
L1104	INDUCTOR,33U J			[C3]	
L1105	INDUCTOR,4.7U J			[C2]	
L1106	INDUCTOR,33U J			[C2]	
L1303	INDUCTOR,68U J			[E3]	☐
L1303	INDUCTOR,82U J			[E3]	⠿▨
L1304	INDUCTOR,150U J			[E3]	
L1306	INDUCTOR,10U J			[E3]	
L1307	INDUCTOR,33U J			[E3]	
L1308	INDUCTOR,10U J			[E2]	
L1312	INDUCTOR,180U J			[C4]	
L1801	INDUCTOR,10U J			[D4]	
L1901	INDUCTOR,220U K			[C4]	
L3501	INDUCTOR,47U K			[B2]	
Q0706	TR	2SD1819A-R-TX		[E4]	
Q0707	TR	2SB1218A-R-TX		[E4]	
Q1003	TR	DTC144EU-T106		[D2]	
Q1004	TR	2SD1819A-R-TX		[B3]	
Q1006	TR	2SD1819A-R-TX		[C3]	
Q1009	TR	2SD1819A-R-TX		[B4]	
Q1011	TR	DTA144EU-T106		[A4]	
Q1012	TR	2SD1819A-R-TX		[A3]	
Q1101	TR	2SD1819A-R-TX		[C3]	
Q1102	TR	2SD1819A-R-TX		[C3]	
Q1103	TR	2SD1819A-R-TX		[C3]	
Q1104	TR	2SD1819A-R-TX		[C3]	
Q1105	TR	2SD1819A-R-TX		[C2]	
Q1106	TR	2SD1819A-R-TX		[C2]	
Q1107	TR	2SD1819A-R-TX		[C2]	
Q1307	TR	2SD1819A-R-TX		[E4]	
Q1309	TR	DTA144EU-T106		[E3]	
Q1310	TR	2SD1819A-R-TX		[E3]	
Q1312	TR	DTA144EU-T106		[E2]	
Q1313	TR	2SD1819A-R-TX		[E2]	
Q1314	TR	DTC144EU-T106		[E3]	⠿▨
Q1324	TR	2SB1218A-R-TX		[C4]	
Q1404	TR	2SB1218A-R-TX		[E2]	
Q1405	TR	2SD1819A-R-TX		[F2]	
Q1406	TR	2SB1218A-R-TX		[E2]	
Q1407	TR	2SB1218A-R-TX		[F2]	
Q1413	TR	DTC144EU-T106		[D3]	
Q1602	TR	DTA144EU-T106		[B4]	
Q1801	TR	2SB1218A-R-TX		[D5]	
Q1802	TR	2SB1218A-R-TX		[D5]	
Q1901	TR	2SD1819A-R-TX		[D4]	
Q1903	TR	DTC144EU-T106		[D4]	
Q1904	TR	2SB1218A-R-TX		[D4]	
Q1905	TR	2SD1819A-R-TX		[D4]	
Q1906	TR	2SB1218A-R-TX		[D4]	
Q1907	TR	DTA144EU-T106		[D4]	
Q1908	TR	DTC144EU-T106		[C4]	
Q3301	TR	XN1211-TW		[A5]	
Q3351	TR	DTC114EU-T106		[E2]	☐
Q3351	TR	2SC4398-TL		[D3]	⠿▨
Q3502	TR	DTC144EU-T106		[C2]	
Q3504	TR	DTC144EU-T106		[B3]	
Q3505	TR	2SD1819A-R-TX		[B3]	
Q3506	TR	2SD1819A-R-TX		[B3]	
Q3571	TR	2SD1819A-R-TX		[B3]	
Q3581	TR	2SD1819A-R-TX		[A1]	▨
Q3751	TR	XN1211-TW		[A1]	⠿▨
Q3801	TR	2SD1819A-R-TX		[F5]	
R0711	MT-GLAZE	2.7K JA	1/16W	[E4]	
R0714	MT-GLAZE	560 JA	1/16W	[E4]	
R0715	MT-FILM	180 DU	1/16W	[E4]	
R0716	MT-GLAZE	120 JA	1/16W	[E4]	
R0723	MT-GLAZE	10K JA	1/16W	[E4]	
R0730	MT-GLAZE	2.2K JA	1/16W	[D3]	
R1003	MT-GLAZE	1K JA	1/16W	[B4]	
R1004	MT-GLAZE	1K JA	1/16W	[D3]	
R1005	MT-GLAZE	1K JA	1/16W	[D3]	
R1010	MT-GLAZE	1K JA	1/16W	[D3]	
R1011	MT-GLAZE	3.3K JA	1/16W	[D3]	
R1014	MT-GLAZE	1.2K JA	1/16W	[B3]	
R1026	MT-GLAZE	1K JA	1/16W	[B5]	
R1027	MT-GLAZE	2.2K JA	1/16W	[B4]	
R1028	MT-GLAZE	10K JA	1/16W	[F3]	
R1029	MT-GLAZE	4.7K JA	1/16W	[D3]	
R1041	MT-GLAZE	470 JA	1/16W	[B5]	
R1042	MT-GLAZE	8.2K JA	1/16W	[A3]	
R1043	MT-GLAZE	150K JA	1/16W	[E2]	
R1052	MT-GLAZE	2.2 JA	1/10W	[F3]	
R1061	MT-GLAZE	47K JA	1/16W	[A3]	
R1062	MT-GLAZE	47K JA	1/16W	[A4]	
R1072	MT-GLAZE	8.2K JA	1/16W	[D3]	
R1073	MT-GLAZE	39K JA	1/16W	[C3]	
R1108	MT-GLAZE	1.8K JA	1/16W	[C2]	
R1109	MT-GLAZE	1K JA	1/16W	[C3]	
R1110	MT-GLAZE	1.5K JA	1/16W	[C3]	
R1111	MT-GLAZE	560 JA	1/16W	[C3]	
R1112	MT-GLAZE	820 JA	1/16W	[C3]	
R1113	MT-GLAZE	680 JA	1/16W	[C3]	
R1114	MT-GLAZE	2.4K JA	1/16W	[C3]	
R1116	MT-GLAZE	0.000 ZA	1/16W	[C3]	
R1117	MT-GLAZE	1.5K JA	1/16W	[C2]	
R1119	MT-GLAZE	560 JA	1/16W	[C2]	
R1120	MT-GLAZE	2.2K JA	1/16W	[C2]	
R1121	MT-GLAZE	820 JA	1/16W	[C3]	
R1122	MT-GLAZE	1K JA	1/16W	[C2]	
R1123	MT-GLAZE	560 JA	1/16W	[C2]	
R1124	MT-GLAZE	1K JA	1/16W	[C2]	
R1302	MT-GLAZE	1.8K JA	1/16W	[C4]	
R1306	MT-GLAZE	5.6K JA	1/16W	[E3]	☐
R1306	MT-GLAZE	6.8K JA	1/16W	[E3]	⠿▨
R1307	MT-GLAZE	560 JA	1/16W	[E3]	
R1312	MT-GLAZE	10 JA	1/16W	[E4]	
R1313	MT-GLAZE	560 JA	1/16W	[E3]	
R1314	MT-GLAZE	0.000 ZA	1/16W	[E3]	
R1315	MT-GLAZE	560 JA	1/16W	[E4]	
R1317	MT-GLAZE	0.000 ZA	1/16W	[E4]	
R1319	MT-GLAZE	1.5K JA	1/16W	[E3]	
R1320	MT-GLAZE	10K JA	1/16W	[E3]	
R1321	MT-GLAZE	12K JA	1/16W	[E3]	
R1322	MT-GLAZE	820 JA	1/16W	[E3]	
R1324	MT-GLAZE	330 JA	1/16W	[E3]	
R1325	MT-GLAZE	390 JA	1/16W	[E3]	
R1326	MT-GLAZE	1.8K JA	1/16W	[E3]	
R1327	MT-GLAZE	1.5K JA	1/16W	[E2]	
R1328	MT-GLAZE	1.8K JA	1/16W	[E3]	
R1329	MT-GLAZE	1.8K JA	1/16W	[E2]	
R1331	MT-GLAZE	120 JA	1/16W	[E2]	
R1332	MT-GLAZE	560 JA	1/16W	[E2]	
R1359	MT-GLAZE	560 JA	1/16W	[C4]	
R1360	MT-GLAZE	390 JA	1/16W	[C4]	
R1406	MT-GLAZE	1K JA	1/16W	[D2]	
R1413	MT-GLAZE	5.6K JA	1/16W	[E2]	
R1416	MT-GLAZE	1.8K JA	1/16W	[E2]	
R1417	MT-GLAZE	1.2K JA	1/16W	[E2]	
R1419	MT-GLAZE	3.3K JA	1/16W	[F2]	
R1421	MT-FILM	4.7K DU	1/16W	[F2]	▨
R1421	MT-FILM	5.6K DU	1/16W	[F2]	⠿☐
R1422	MT-GLAZE	820 JA	1/16W	[E2]	
R1423	MT-FILM	15K DU	1/16W	[F2]	▨
R1423	MT-FILM	12K DU	1/16W	[F2]	⠿☐
R1424	MT-GLAZE	4.7K JA	1/16W	[E2]	
R1430	MT-GLAZE	10K JA	1/16W	[C4]	
R1437	MT-FILM	2.7K DU	1/16W	[F2]	▨
R1437	MT-FILM	1K DU	1/16W	[F2]	⠿☐
R1440	MT-GLAZE	0.000 ZA	1/16W	[C2]	
R1441	MT-GLAZE	0.000 ZA	1/16W	[D2]	
R1447	MT-GLAZE	10K JA	1/16W	[G4]	
R1450	MT-GLAZE	9.1K JA	1/16W	[D2]	
R1492	MT-GLAZE	0.000 ZA	1/16W	[G4]	
R1605	MT-GLAZE	22K JA	1/16W	[B4]	
R1607	MT-GLAZE	27K JA	1/16W	[B4]	
R1609	MT-GLAZE	33K JA	1/16W	[B4]	
R1610	MT-GLAZE	100K JA	1/16W	[A4]	
R1611	MT-GLAZE	330K JA	1/16W	[A4]	
R1612	MT-GLAZE	220K JA	1/16W	[A4]	
R1625	MT-GLAZE	470 JA	1/16W	[B3]	
R1627	MT-GLAZE	10K JA	1/16W	[B3]	
R1628	MT-GLAZE	8.2K JA	1/16W	[A3]	
R1801	MT-GLAZE	10 JA	1/16W	[D5]	
R1802	MT-GLAZE	270 JA	1/16W	[D5]	
R1803	MT-GLAZE	220 JA	1/16W	[D5]	
R1804	MT-GLAZE	22K JA	1/16W	[D5]	
R1805	MT-GLAZE	33K JA	1/16W	[D4]	
R1806	MT-GLAZE	5.6 JA	1/10W	[D5]	
R1901	MT-GLAZE	3.3 JA	1/10W	[D4]	
R1902	MT-GLAZE	3.3 JA	1/10W	[C4]	
R1903	MT-GLAZE	1.8K JA	1/16W	[C4]	
R1904	MT-GLAZE	430 JA	1/16W	[C4]	
R1905	MT-FILM	1.5K DU	1/16W	[D4]	
R1907	MT-FILM	8.2K DU	1/16W	[D4]	
R1908	MT-GLAZE	0.000 ZA	1/16W	[D4]	
R1910	MT-FILM	6.8K DU	1/16W	[D4]	
R1912	MT-FILM	1.5K DU	1/16W	[D4]	
R1914	MT-GLAZE	470K JA	1/16W	[D4]	
R1924	MT-GLAZE	2.2K JA	1/16W	[D4]	
R1935	MT-GLAZE	10K JA	1/16W	[D4]	
R1936	MT-GLAZE	180K JA	1/16W	[D4]	
R1937	MT-GLAZE	0.000 ZA	1/16W	[F4]	
R1939	MT-GLAZE	0.000 ZA	1/16W	[C5]	
R1945	MT-FILM	910 DU	1/16W	[E4]	☐
R1945	MT-FILM	220 DU	1/16W	[E4]	⠿▨
R1946	MT-GLAZE	12K JA	1/16W	[D4]	
R1947	MT-GLAZE	12K JA	1/16W	[D4]	
R1948	MT-GLAZE	220 JA	1/16W	[D4]	
R1949	MT-GLAZE	3.3K JA	1/16W	[D4]	
R1950	MT-GLAZE	68K JA	1/16W	[C4]	
R1995	MT-GLAZE	0.000 ZA	1/16W	[D4]	
R1997	MT-GLAZE	3.3 JA	1/10W	[C4]	
R1998	MT-GLAZE	100 JA	1/16W	[D4]	
R1999	MT-GLAZE	470 JA	1/16W	[D4]	
R2640	MT-GLAZE	1K JA	1/16W	[F4]	
R2641	MT-GLAZE	0.000 ZA	1/16W	[F4]	
R3201	MT-GLAZE	3.3K JA	1/16W	[C1]	
R3202	MT-GLAZE	470K JA	1/16W	[D1]	
R3203	MT-GLAZE	39K JA	1/16W	[C1]	
R3204	MT-GLAZE	470K JA	1/16W	[C1]	
R3205	MT-GLAZE	120K JA	1/16W	[C2]	
R3206	MT-GLAZE	10K JA	1/16W	[C2]	
R3207	MT-GLAZE	33 JA	1/16W	[D1]	
R3208	MT-GLAZE	4.7K JA	1/16W	[C1]	
R3307	MT-GLAZE	220 JA	1/10W	[A5]	
R3308	MT-GLAZE	100 JA	1/10W	[A5]	
R3351	MT-GLAZE	470 JA	1/16W	[E1]	
R3355	MT-GLAZE	0.000 ZA	1/16W	[E2]	
R3401	MT-GLAZE	1K JA	1/16W	[G5]	
R3402	MT-GLAZE	100K JA	1/16W	[B2]	
R3505	MT-GLAZE	10K JA	1/16W	[C3]	
R3509	MT-GLAZE	10K JA	1/16W	[B2]	
R3519	MT-GLAZE	0.000 ZA	1/16W	[B3]	⠿☐
R3527	MT-GLAZE	100K JA	1/16W	[A2]	
R3530	MT-GLAZE	10K JA	1/16W	[B3]	
R3531	MT-GLAZE	10K JA	1/16W	[B3]	
R3533	MT-GLAZE	1K JA	1/16W	[C1]	
R3534	MT-GLAZE	10K JA	1/16W	[C2]	
R3535	MT-GLAZE	10K JA	1/16W	[A3]	
R3536	MT-GLAZE	10K JA	1/16W	[A2]	
R3582	MT-GLAZE	33K JA	1/16W	[A1]	▨
R3583	MT-GLAZE	10K JA	1/16W	[A1]	▨
R3584	MT-GLAZE	1K JA	1/16W	[A1]	▨
R3585	MT-GLAZE	68 JA	1/16W	[A2]	▨
R3586	MT-GLAZE	150 JA	1/16W	[A2]	▨
R3597	MT-GLAZE	220 JA	1/16W	[A1]	▨
R3602	MT-GLAZE	4.7 JA	1/16W	[B4]	
R3603	MT-GLAZE	4.7 JA	1/16W	[B4]	
R3604	MT-GLAZE	4.7 JA	1/16W	[B5]	
R3606	MT-GLAZE	100K JA	1/16W	[A4]	
R3607	MT-GLAZE	1K JA	1/16W	[A4]	
R3610	MT-GLAZE	0.000 ZA	1/16W	[A4]	
R3751	MT-GLAZE	2.7K JA	1/16W	[A2]	⠿▨
R3752	MT-GLAZE	10K JA	1/16W	[A2]	⠿▨
R3801	MT-GLAZE	100K JA	1/16W	[F5]	
R3802	MT-GLAZE	10K JA	1/16W	[F5]	
R3803	MT-GLAZE	1M JA	1/16W	[F4]	
R3804	MT-GLAZE	15K JA	1/16W	[E4]	
R3807	MT-GLAZE	10K JA	1/16W	[E5]	
R3808	MT-GLAZE	10K JA	1/16W	[F4]	
R3816	MT-GLAZE	47 JA	1/16W	[F5]	
R3817	MT-GLAZE	47 JA	1/16W	[F5]	
R3901	MT-GLAZE	1K JA	1/16W	[F5]	
R3902	MT-GLAZE	3.9K JA	1/16W	[F5]	
RB315	R-NETWORK	100KX2	0.063W	[A2]	
RB316	R-NETWORK	100KX2	0.063W	[A3]	
RB332	R-NETWORK	10KX2	0.063W	[B5]	
RB351	R-NETWORK	100KX2	0.063W	[B2]	
RB354	R-NETWORK	100KX2	0.063W	[B3]	
RB355	R-NETWORK	100KX2	0.063W	[B3]	
T3201	FILTER,BE	6.88MHZ		[D2]	

LEADLESS COMPONENT PARTS LOCATION GUIDE
VF1 BOARD (SIDE B)
For VM-EX370P

C9701	CERAMIC	0.1U Z	25V	[C2]
C9702	CERAMIC	0.47U Z	16V	[B1]
C9703	CERAMIC	0.01U K	25V	[B1]
C9707	CERAMIC	0.1U Z	25V	[C1]
C9708	CERAMIC	0.1U Z	25V	[C1]
C9709	CERAMIC	0.01U K	25V	[B1]
C9710	CERAMIC	0.01U K	25V	[C1]
C9713	CERAMIC	1U Z	16V	[B2]
C9716	CERAMIC	0.047U Z	25V	[C2]
C9717	CERAMIC	82P J	50V	[C1]
C9719	CERAMIC	0.1U Z	25V	[B1]
C9720	CERAMIC	0.1U Z	25V	[B1]
C9721	CERAMIC	0.1U Z	25V	[C2]
C9722	CERAMIC	0.1U Z	25V	[B1]
C9725	CERAMIC	1U Z	16V	[B1]
C9726	CERAMIC	0.1U Z	25V	[C2]
C9729	CERAMIC	680P J	50V	[B2]
C9730	CERAMIC	22P J	50V	[C2]
C9751	CERAMIC	0.1U Z	25V	[C1]
C9752	CERAMIC	82P J	50V	[C1]
C9755	CERAMIC	0.1U Z	25V	[C1]
C9756	CERAMIC	0.01U K	25V	[C2]
C9757	CERAMIC	1000P K	50V	[C1]
C9758	CERAMIC	100P J	50V	[C2]
C9760	CERAMIC	3300P K	50V	[C2]
C9766	TA-SOLID	3.3U M	6.3V	[C2]
D9751	DIODE	MA365-(TX)		[C1]
IC971	IC	CXA1785R-T4		[B1]
L9701	HF CHOKE			[C2]
L9751	HF CHOKE			[C1]
Q9701	TR	2SB1218A-R-TX		[C1]
Q9751	TR	2SC4211-6-TL		[D2]
Q9752	TR	2SC4211-6-TL		[C1]
Q9753	TR	2SB1218A-R-TX		[D1]
R9701	MT-GLAZE	22K JA	1/16W	[C2]
R9702	MT-GLAZE	22K JA	1/16W	[C2]
R9705	MT-GLAZE	2.7K JA	1/16W	[B1]
R9706	MT-GLAZE	22K JA	1/16W	[D1]
R9707	MT-GLAZE	22K JA	1/16W	[D1]
R9708	MT-GLAZE	5.6K JA	1/16W	[C1]
R9709	MT-GLAZE	680 JA	1/16W	[C1]
R9710	MT-GLAZE	1M JA	1/16W	[C1]
R9713	MT-GLAZE	10M JA	1/16W	[B2]
R9714	MT-GLAZE	18K JA	1/16W	[B2]
R9715	MT-GLAZE	3.3K JA	1/16W	[C1]
R9716	MT-GLAZE	1.5K JA	1/16W	[B1]
R9721	MT-GLAZE	22K JA	1/16W	[A1]
R9722	MT-GLAZE	22K JA	1/16W	[B1]
R9723	MT-GLAZE	22K JA	1/16W	[C2]
R9724	MT-GLAZE	22K JA	1/16W	[C2]
R9729	MT-GLAZE	6.8K JA	1/16W	[B1]
R9731	MT-GLAZE	22K JA	1/16W	[B2]
R9732	MT-GLAZE	22K JA	1/16W	[B2]
R9738	MT-GLAZE	270 JA	1/16W	[B2]
R9739	MT-GLAZE	0.000 ZA	1/16W	[C2]
R9740	MT-GLAZE	0.000 ZA	1/16W	[C1]
R9742	MT-GLAZE	0.000 ZA	1/16W	[C2]
R9751	MT-GLAZE	5.6K JA	1/16W	[D2]
R9752	MT-GLAZE	10K JA	1/16W	[D2]
R9753	MT-GLAZE	0.000 ZA	1/16W	[D1]
R9754	MT-GLAZE	10K JA	1/16W	[D1]
R9755	MT-GLAZE	47K JA	1/16W	[D1]
R9756	MT-GLAZE	22K JA	1/16W	[D1]
R9757	MT-GLAZE	22K JA	1/16W	[D1]
R9758	MT-GLAZE	10K JA	1/16W	[C1]
R9759	MT-GLAZE	10K JA	1/16W	[C1]
R9760	MT-GLAZE	10K JA	1/16W	[D2]
R9761	MT-GLAZE	33K JA	1/16W	[C2]
R9762	MT-GLAZE	10K JA	1/16W	[C2]
R9763	MT-GLAZE	1K JA	1/16W	[C2]
R9764	MT-GLAZE	0.000 ZA	1/16W	[C1]
VR976	VR	47K		[B1]
VR978	SVR	220		[B2]
VR979	SVR	220		[B2]
VR980	VR	47K		[B2]
VR982	VR	47K		[D1]
VR983	VR	47K		[D2]

CP1/AD2 BOARD (SIDE B)

CN291 (VM-EX220P)

1	MIC VCC
2	MIC OUT
3	AUDIO GND

TO CP1

CN292

1	MIC LA GND
2	INT MIC LA
3	INT MIC LB
4	MIC LB GND

CN293 (VM-EX280P, 370P)

1	MIC RA GND
2	INT MIC RA
3	INT MIC RB
4	MIC RB GND

CN291 (VM-EX280P, 370P)

1	MIC VCC
2	EXT MIC OUT L
3	AUDIO GND
4	EXT MIC OUT R
5	INT MIC OUT L
6	INT MIC OUT R
7	WIND ON/OFF

CN103

1	V/A 5V
2	GND
3	VF VIDEO
4	VF 5V
5	UNREG
6	UNREG GND

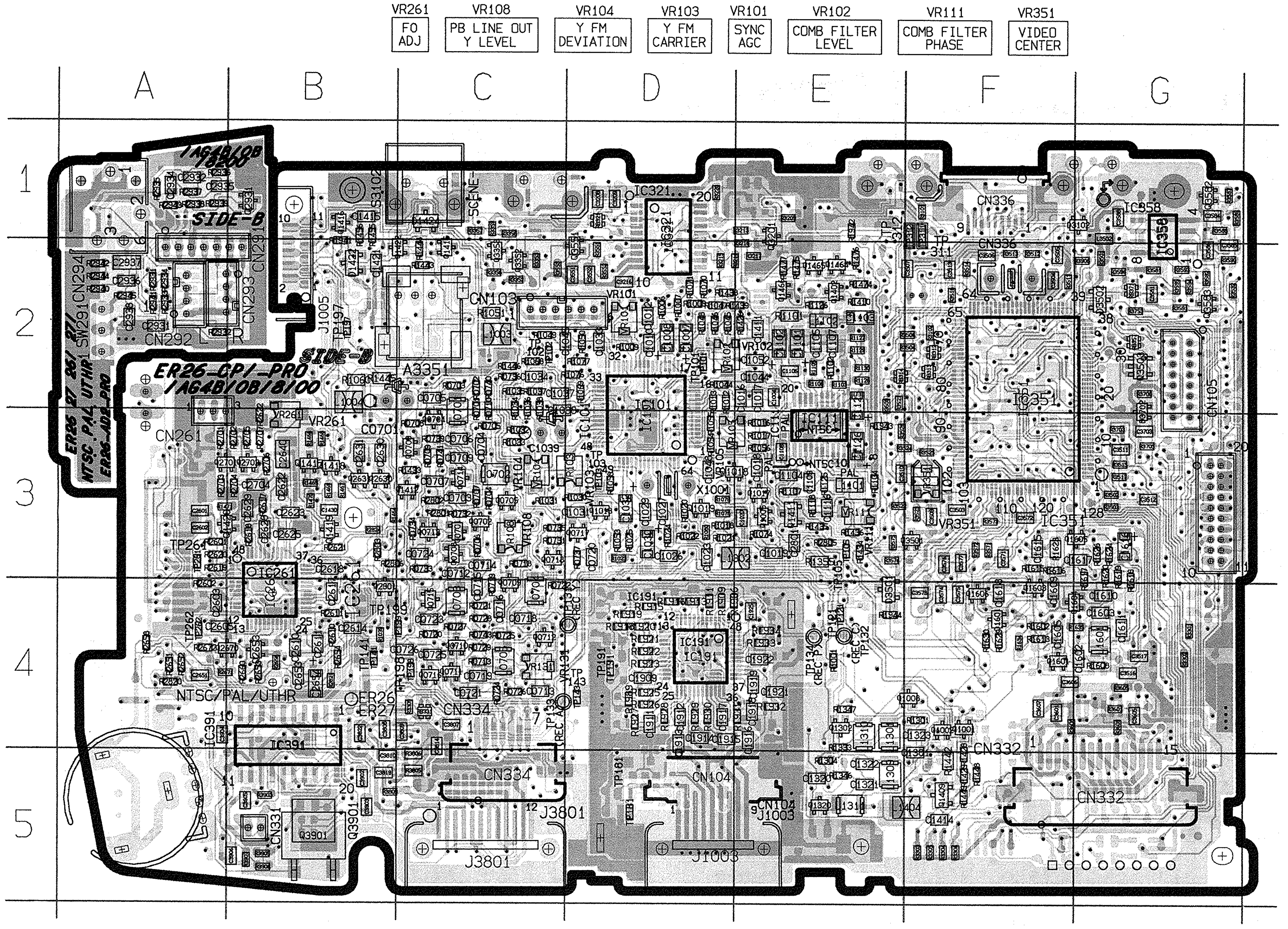
For VM-EX370P (5, 6)

TO VF1

CN334

1	UNLOAD
2	LOAD
3	MODE SW 0
4	MODE SW 1
5	MODE SW 2
6	GND
7	DEW

TO MECHA



CN104

1	GND
2	FE(X)
3	FE(Y)
4	GND
5	CH B(X)
6	CH B(Y)
7	GND
8	CH A(Y)
9	CH A(X)

TO CYLINDER

CN105

1	CAMERA SCK
2	CAMERA SO
3	SOUT 3
4	SOUT 2
5	CAM SI
6	SIN 2
7	SIN 1
8	FADE+DATE
9	DATE BLK
10	SIN 0
11	C GND
12	CAMERA C
13	Y GND
14	CAMERA Y
15	MF REF
16	CAMERA CS

TO CP2

CN336

1	$\overline{\text{SIN 6}}$
2	$\overline{\text{SIN 1}}$
3	$\overline{\text{SIN 4}}$
4	$\overline{\text{SIN 0}}$
5	$\overline{\text{SIN 5}}$
6	$\overline{\text{SIN 3}}$
7	$\overline{\text{SIN 2}}$
8	$\overline{\text{SOUT 0}}$
9	$\overline{\text{SOUT 1}}$

TO CONTROL PANEL

CN332

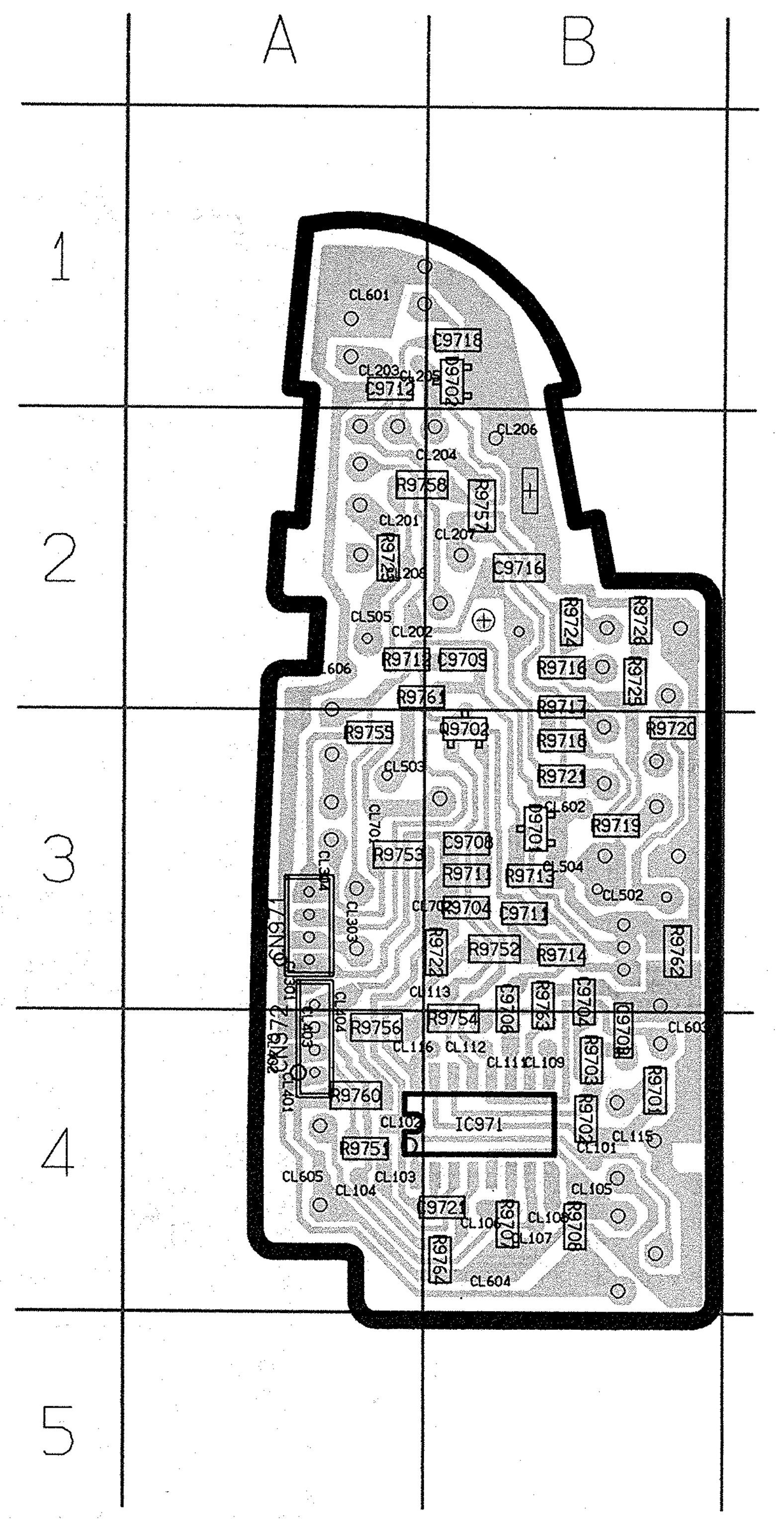
1	FG GND
2	FG OUT2
3	FG VCC
4	FG OUT1
5	HE VCC
6	HU −
7	HU +
8	HV −
9	HV +
10	HW −
11	HW +
12	HE GND
13	CAP V
14	CAP U
15	CAP W

TO CAPSTAN MOTOR

VF1 BOARD (SIDE B)【VM-EX220P/280P】

LEADLESS COMPONENT PARTS LOCATION GUIDE
VF1 BOARD (SIDE B)
For VM-EX220P, VM-EX280P

C9703	TA-SOLID	1U	M	16V	[B4]
C9704	CERAMIC	1500P	K	50V	[B4]
C9706	CERAMIC	1U	Z	16V	[B4]
C9708	CERAMIC	47P	J	50V	[B3]
C9709	CERAMIC	0.1U	Z	50V	[B3]
C9711	CERAMIC	0.1U	Z	25V	[B4]
C9712	CERAMIC	560P	J	50V	[A2]
C9716	CERAMIC	0.022U	K	100V	[B2]
C9718	CERAMIC	1000P	J	50V	[B2]
D9701	DIODE DSB010-TB				[B3]
D9702	DIODE SB02-09CP-TB				[B2]
IC971	IC BA7149F-T1				[B4]
Q9702	TR 2SA1257-G5-TB				[B3]
R9701	MT-GLAZE	100K	JA	1/10W	[B4]
R9702	MT-GLAZE	390K	JA	1/10W	[B4]
R9703	MT-GLAZE	10K	JA	1/10W	[B4]
R9704	MT-GLAZE	27	JA	1/10W	[B4]
R9707	MT-GLAZE	18K	JA	1/10W	[B5]
R9708	MT-GLAZE	3.9	JA	1/10W	[B5]
R9711	MT-GLAZE	4.7K	GA	1/10W	[B3]
R9712	MT-GLAZE	22K	GA	1/10W	[A3]
R9713	MT-GLAZE	3.3M	JA	1/10W	[B3]
R9714	MT-GLAZE	330	JA	1/10W	[B4]
R9716	MT-GLAZE	0.000	ZA	1/10W	[B3]
R9717	MT-GLAZE	3.3M	JA	1/10W	[B3]
R9718	MT-GLAZE	390K	JA	1/10W	[B3]
R9719	MT-GLAZE	0.000	ZA	1/10W	[B3]
R9720	MT-GLAZE	120K	JA	1/10W	[B3]
R9721	MT-GLAZE	1.5M	JA	1/10W	[B3]
R9722	MT-GLAZE	1K	JA	1/10W	[B4]
R9723	MT-GLAZE	4.7	JA	1/10W	[A2]
R9724	MT-GLAZE	5.6M	JA	1/10W	[B3]
R9725	MT-GLAZE	8.2M	JA	1/10W	[B3]
R9726	MT-GLAZE	0.000	ZA	1/10W	[B3]
R9751	MT-GLAZE	0.000	ZA	1/10W	[A4]
R9752	MT-GLAZE	0.000	ZA	1/8W	[B4]
R9753	MT-GLAZE	0.000	ZA	1/8W	[A3]
R9754	MT-GLAZE	0.000	ZA	1/8W	[B4]
R9755	MT-GLAZE	0.000	ZA	1/10W	[A3]
R9756	MT-GLAZE	0.000	ZA	1/8W	[A4]
R9757	MT-GLAZE	0.000	ZA	1/8W	[B2]
R9758	MT-GLAZE	0.000	ZA	1/8W	[A2]
R9760	MT-GLAZE	0.000	ZA	1/8W	[A4]
R9761	MT-GLAZE	0.000	ZA	1/10W	[A3]
R9764	MT-GLAZE	0.000	ZA	1/10W	[B5]



CN971

1	V/A 5V
2	GND
3	VIDEO
4	VF 5V

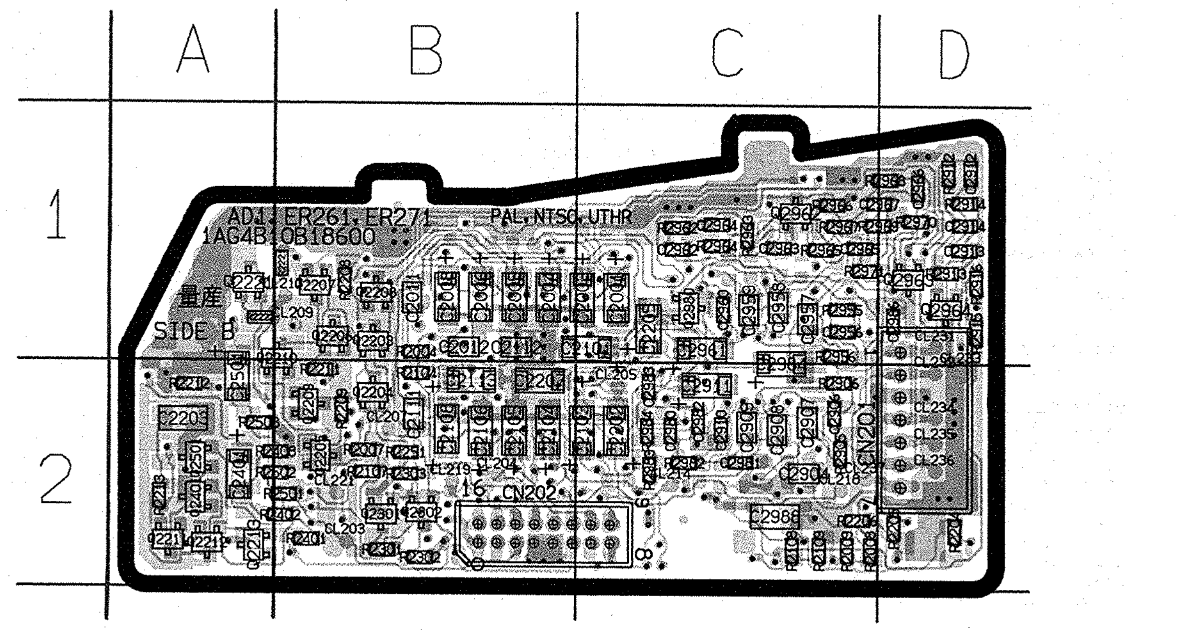
CN972

1	DV1
2	DV2
3	DH1
4	DH2

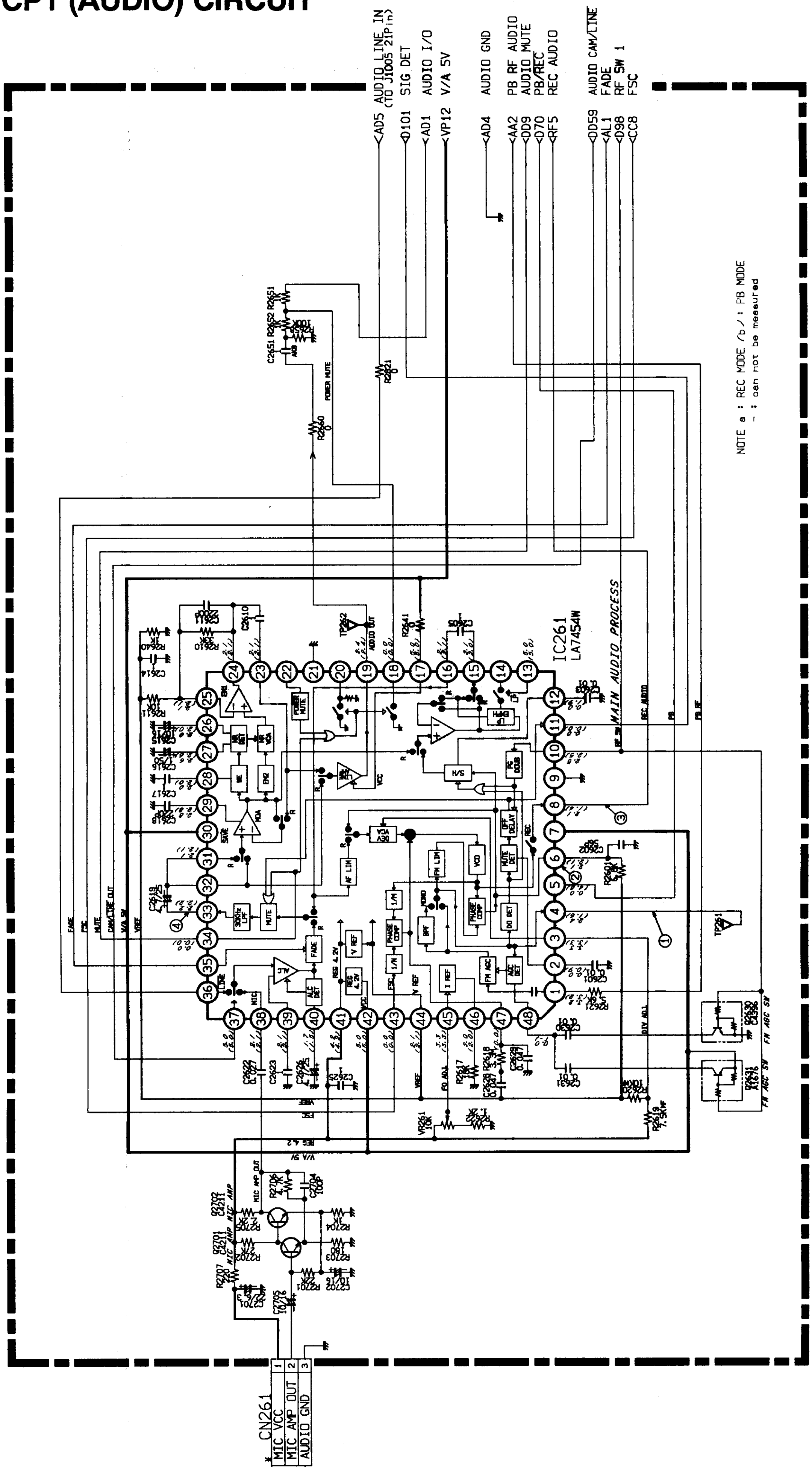
LEADLESS COMPONENT PARTS LOCATION GUIDE
CP1/AD2 BOARD (SIDE B)
▒:VM-EX220P ☐:VM-EX280P
▓:VM-EX370P

C0703	CERAMIC	33P	J	50V	[C3]
C0705	CERAMIC	56P	J	50V	[C2]
C0706	CERAMIC	47P	J	50V	[C3]
C0709	CERAMIC	27P	J	50V	[C3]
C0714	CERAMIC	27P	J	50V	[C3]
C0715	CERAMIC	56P	J	50V	[C4]
C0716	CERAMIC	180P	J	50V	[C4]
C0718	CERAMIC	27P	J	50V	[C4]
C0719	CERAMIC	33P	J	50V	[C4]
C0720	CERAMIC	68P	J	50V	[D3]
C0721	CERAMIC	1000P	K	50V	[C4]
C0724	CERAMIC	100P	J	50V	[C3]
C1004	CERAMIC	1U	Z	16V	[E2]
C1007	TA-SOLID	1U	M	16V	[D2]
C1008	TA-SOLID	3.3U	M	6.3V	[D2]
C1010	CERAMIC	0.01U	K	50V	[D2]
C1012	CERAMIC	0.1U	Z	25V	[D2]
C1016	CERAMIC	390P	J	50V	[E2]
C1017	CERAMIC	330P	J	50V	[E2]
C1020	CERAMIC	47P	J	50V	[E3]
C1023	CERAMIC	0.1U	Z	25V	[D3]
C1027	CERAMIC	1U	Z	16V	[D3]
C1029	CERAMIC	0.022U	M	50V	[D3]
C1030	TA-SOLID	0.68U	M	20V	[D3]
C1031	CERAMIC	6800P	K	50V	[D3]
C1032	TA-SOLID	1U	M	16V	[D3]
C1033	CERAMIC	0.47U	Z	25V	[D2]
C1034	CERAMIC	0.22U	Z	25V	[C2]
C1037	CERAMIC	1U	Z	16V	[C2]
C1038	CERAMIC	1U	Z	16V	[C2]
C1044	CERAMIC	1000P	K	50V	[E2]
C1052	CERAMIC	7P	C	50V	[E2]
C1104	CERAMIC	1U	Z	16V	[E3]
C1105	CERAMIC	0.1U	Z	25V	[E2]
C1106	CERAMIC	0.1U	Z	25V	[E2]
C1107	CERAMIC	0.1U	Z	25V	[E2]
C1108	CERAMIC	1000P	K	50V	[E3]
C1109	CERAMIC	1000P	K	50V	[E3]
C1116	CERAMIC	27P	J	50V	[E3]
C1125	TA-SOLID	3.3U	M	6.3V	[E2]
C1126	TA-SOLID	3.3U	M	6.3V	[E3]
C1301	CERAMIC	2200P	K	50V	[F5]
C1320	CERAMIC	0.1U	Z	25V	[E5]
C1321	CERAMIC	75P	J	50V	[E5]
C1322	CERAMIC	270P	J	50V	[E5]
C1323	CERAMIC	36P	J	50V	[F4]
C1411	CERAMIC	10P	D	50V	[E2]
C1414	CERAMIC	0.01U	K	50V	[F5]
C1421	CERAMIC	0.1U	Z	25V	[B2]
C1430	CERAMIC	1000P	K	50V	[B3]
C1602	CERAMIC	0.1U	Z	25V	[G4]
C1603	CERAMIC	12P	J	50V	[G4]
C1605	CERAMIC	27P	J	50V	[F4]
C1610	CERAMIC	56P	J	50V	[G4]
C1611	CERAMIC	47P	J	50V	[G4]
C1615	CERAMIC	1U	Z	16V	[F3]
C1618	CERAMIC	1000P	K	50V	[F4]
C1909	CERAMIC	0.01U	K	50V	[D4]
C1911	CERAMIC	0.1U	Z	25V	[D4]
C1912	CERAMIC	0.01U	K	50V	[D4]
C1913	CERAMIC	22P	J	50V	[D4]
C1914	CERAMIC	0.022U	M	50V	[D4]
C1915	CERAMIC	0.022U	M	50V	[D4]
C1916	CERAMIC	22P	J	50V	[E4]
C1917	CERAMIC	0.01U	K	50V	[D4]
C1919	CERAMIC	0.01U	K	50V	[E4]
C1922	CERAMIC	0.01U	K	50V	[E4]
C1925	CERAMIC	1000P	K	50V	[E4]
C2601	CERAMIC	0.01U	K	50V	[A3]
C2602	CERAMIC	56P	J	50V	[A3]
C2603	CERAMIC	0.01U	K	50V	[A4]
C2605	CERAMIC	1U	Z	16V	[A4]
C2610	CERAMIC	1U	Z	16V	[B4]
C2611	CERAMIC	2200P	K	50V	[B4]
C2614	CERAMIC	1U	Z	16V	[B4]
C2617	CERAMIC	1U	Z	16V	[B4]
C2618	CERAMIC	220P	J	50V	[B3]
C2622	CERAMIC	0.027U	K	25V	[B3]
C2623	CERAMIC	1U	Z	16V	[B3]
C2625	CERAMIC	1U	Z	16V	[B3]
C2628	CERAMIC	0.047U	K	25V	[B3]
C2629	CERAMIC	0.047U	K	25V	[B3]
C2630	CERAMIC	0.01U	K	50V	[B3]
C2631	CERAMIC	0.01U	K	50V	[B3]
C2651	CERAMIC	1U	Z	16V	[A4]
C2704	CERAMIC	100P	J	50V	[B3]
C2801	CERAMIC	1000P	K	50V	[E3]
C2931	CERAMIC	0.056U	K	25V	[A2]
C2936	CERAMIC	0.01U	K	50V	[A2]
C2937	CERAMIC	0.1U	K	25V	[A2]
C3208	CERAMIC	47P	J	50V	[D1]
C3209	CERAMIC	47P	J	50V	[D1]
C3216	CERAMIC	1U	Z	16V	[D2]
C3503	CERAMIC	0.1U	Z	25V	[F3]
C3504	CERAMIC	1U	Z	16V	[F2]
C3505	CERAMIC	22P	J	50V	[F2]
C3506	CERAMIC	27P	J	50V	[F2]
C3507	CERAMIC	22P	J	50V	[F2]
C3509	CERAMIC	0.01U	K	50V	[F3]
C3510	CERAMIC	0.01U	K	50V	[E3]
C3513	CERAMIC	22P	J	50V	[F2]
C3516	CERAMIC	470P	J	50V	[G4]
C3517	CERAMIC	470P	J	50V	[G4]
C3551	CERAMIC	0.1U	Z	25V	[D2]
C3552	CERAMIC	0.1U	Z	25V	[D2]
C3571	CERAMIC	0.1U	Z	25V	[F3]
C3572	CERAMIC	0.1U	Z	25V	[F3]
C3576	CERAMIC	0.1U	Z	25V	[F3]
C3577	CERAMIC	0.1U	Z	25V	[F3]
C3578	CERAMIC	0.1U	Z	25V	[F4]
C3581	CERAMIC	0.1U	Z	25V	[G2]
C3584	CERAMIC	0.01U	K	50V	[G1]
C3585	CERAMIC	470P	J	50V	[G2]
C3586	CERAMIC	0.01U	K	50V	[G2]
C3588	CERAMIC	0.022U	M	50V	[G1]
C3606	CERAMIC	0.1U	Z	25V	[F4]
C3607	CERAMIC	0.1U	Z	25V	[F4]
C3807	CERAMIC	0.047U	Z	25V	[C4]
C3808	CERAMIC	0.1U	Z	25V	[B4]
C3809	CERAMIC	0.022U	M	50V	[C4]
C3810	CERAMIC	0.022U	M	50V	[B5]
C3814	CERAMIC	0.033U	K	50V	[C4]
C3819	CERAMIC	1U	Z	16V	[B5]
C3902	CERAMIC	0.01U	K	50V	[B5]
C3903	CERAMIC	0.01U	K	50V	[B5]
C3904	CERAMIC	100P	J	50V	[A4]
C3905	CERAMIC	0.01U	K	50V	[B5]
C3906	CERAMIC	0.01U	K	50V	[B5]
D3102	DIODE DAN202U-T106				[G1]
D3501	ZENER DIODE MA3082WA-TX				[E4]
IC101	IC CXA1700AR-T6				[D3]
IC111	IC CXL1506N-T4				[E3]
IC191	IC CXA1704R-T4				[D4]
IC261	IC LA7454W-P-TRM				[B4]
IC321	IC XLU6000FS-E1				[D1]
IC351	IC M37773M4A110HP				[F2]
IC358	IC BA10393F-T1				[F2]
IC391	IC MPC1720MR1				[B4]
L0701	INDUCTOR,100U J				[C2]
L0703	INDUCTOR,100U J				[C4]
L0704	INDUCTOR,39U J				[C4]
L0705	INDUCTOR,33U J				[C4]
L1101	CORE				[E3]
L1301	INDUCTOR,470U J				[E4]
L1309	INDUCTOR,33U J				[E5]
L1310	INDUCTOR,330U J				[E4]
L1311	INDUCTOR,4.7U J				[E5]
L1601	INDUCTOR,10U J				[G4]
L3502	INDUCTOR,2250 OHM				[G1]
Q0701	TR DTC144EU-T106				[C3]
Q0702	TR 2SD1819A-R-TX				[C3]
Q0703	TR 2SD1819A-R-TX				[C3]
Q0704	TR 2SD1819A-R-TX				[C3]
Q0705	TR 2SD1819A-R-TX				[C3]
Q0708	TR DTC144WU-T106				[C3]
Q0709	TR 2SD1819A-R-TX				[C4]
Q0710	TR 2SB1218A-R-TX				[C4]
Q0711	TR 2SD1819A-R-TX				[C4]
Q0712	TR 2SD1819A-R-TX				[C4]
Q0713	TR 2SD1819A-R-TX				[C3]
Q0714	TR 2SB1218A-R-TX				[C3]
Q0717	TR 2SD1819A-R-TX				[D3]
Q0718	TR 2SB1218A-R-TX				[C3]
Q1001	TR DTC144EU-T106				[F4]
Q1002	TR DTC144EU-T106				[F4]
Q1018	TR 2SD1819A-R-TX				[E3]
Q1019	TR 2SB1218A-R-TX				[D3]
Q1302	TR 2SD1819A-R-TX				[E4]
Q1320	TR 2SB1218A-R-TX				[E5]
Q1409	TR 2SB815-B6-TB				[F5]
Q1412	TR DTC144EU-T106				[C3]
Q1417	TR 2SB1218A-R-TX				[B3]
Q1418	TR 2SB1218A-R-TX				[B3]
Q1422	TR 2SA1745-6-TL				[C2]
Q1465	TR 2SD1819A-R-TX				[E2]
Q1466	TR 2SB1218A-R-TX				[E2]
Q1601	TR DTA144EU-T106				[F4]
Q1603	TR 2SD1819A-R-TX				[F4]
Q1604	TR 2SD1819A-R-TX				[G4]
Q1605	TR DTC144EU-T106				[G3]
Q1606	TR DTC144EU-T106				[F4]
Q2630	TR DTC144EU-T106				[B3]
Q2631	TR DTA144EU-T106				[B3]
Q2701	TR 2SD1819A-R-TX				[B3]
Q2702	TR 2SD1819A-R-TX				[B3]
Q3201	TR 2SD1819A-R-TX				[E1]
Q3352	TR DTA124EU-T106				[C2]
Q3352	TR 2SA1677-TL				[C2]
Q3501	TR 2SA1745-6-TL				[F3]
Q3503	TR FMG2-T99				[G2]
Q3551	TR 2SK1332-3-TL				[D2]
Q3582	TR 2SB1218A-R-TX				[G1]
Q3583	TR 2SB1218A-R-TX				[G2]
Q3901	TR 2SB1202-S-TL				[B5]
R0702	MT-GLAZE	820	JA	1/16W	[C2]
R0703	MT-GLAZE	820	JA	1/16W	[C2]
R0704	MT-GLAZE	560	JA	1/16W	[C3]
R0705	MT-GLAZE	0.000	ZA	1/16W	[C3]
R0706	MT-GLAZE	330	JA	1/16W	[C3]
R0707	MT-FILM	2.7K	DU	1/16W	[C3]
R0708	MT-GLAZE	10K	JA	1/16W	[C3]
R0709	MT-FILM	270	DU	1/16W	[C3]
R0710	MT-FILM	270	DU	1/16W	[C2]
R0718	MT-GALZE	3.3K	JA	1/16W	[C3]
R0719	MT-FILM	1.8K	DU	1/16W	[C4]
R0720	MT-GLAZE	220	JA	1/16W	[C4]
R0721	MT-GLAZE	0.000	ZA	1/16W	[C4]
R0722	MT-GLAZE	820	JA	1/16W	[C4]
R0724	MT-GLAZE	220	JA	1/16W	[C4]
R0725	MT-GLAZE	680	JA	1/16W	[C4]
R0726	MT-FILM	2.7K	DU	1/16W	[C4]
R0727	MT-FILM	220	DU	1/16W	[C4]
R0728	MT-GLAZE	220	JA	1/16W	[C4]
R0729	MT-GLAZE	680	JA	1/16W	[C4]
R0731	MT-GLAZE	560	JA	1/16W	[C3]
R0732	MT-GLAZE	560	JA	1/16W	[C3]
R0733	MT-GLAZE	180	JA	1/16W	[C3]
R0734	MT-GLAZE	220	JA	1/16W	[C3]
R0735	MT-GLAZE	560	JA	1/16W	[C3]
R0736	MT-GLAZE	0.000	ZA	1/16W	[C2]
R0737	MT-GLAZE	560	JA	1/16W	[D3]
R0739	MT-GLAZE	47K	JA	1/16W	[C3]
R0743	MT-GLAZE	15	JA	1/16W	[C4]
R1001	MT-GLAZE	2.2K	JA	1/16W	[E4]
R1008	MT-GLAZE	1K	JA	1/16W	[D2]
R1009	MT-GLAZE	47K	JA	1/16W	[D2]
R1012	MT-GLAZE	470	JA	1/16W	[D2]
R1013	MT-GLAZE	1.2K	JA	1/16W	[D2]
R1020	MT-GLAZE	3.3K	JA	1/16W	[D3]
R1023	MT-FILM	18K	DU	1/16W	[D3]
R1024	MT-GLAZE	5.6K	JA	1/16W	[D3]
R1025	MT-GLAZE	3.9K	JA	1/16W	[D3]
R1030	MT-GLAZE	27K	JA	1/16W	[D3]
R1031	MT-GLAZE	0.000	ZA	1/16W	[C3]
R1032	MT-GLAZE	18K	JA	1/16W	[C3]
R1033	MT-GLAZE	0.000	ZA	1/16W	[C3]
R1034	MT-GLAZE	6.8K	JA	1/16W	[C2]
R1035	MT-GLAZE	39K	JA	1/16W	[C2]
R1036	MT-GLAZE	39	JA	1/16W	[C2]
R1037	MT-FILM	1K	DU	1/16W	[C2]
R1038	MT-FILM	820	DU	1/16W	[C2]
R1039	MT-FILM	68	DC	1/16W	[B4]
R1044	MT-GLAZE	2.2K	JA	1/16W	[D2]
R1051	MT-GLAZE	2.2	JA	1/10W	[C2]
R1054	MT-GLAZE	18K	JA	1/16W	[D3]
R1055	MT-GLAZE	27K	JA	1/16W	[D3]
R1056	MT-GLAZE	0.000	ZA	1/16W	[E3]
R1058	MT-GLAZE	0.000	ZA	1/16W	[D3]
R1060	MT-GLAZE	2.2	JA	1/10W	[B2]
R1068	MT-GLAZE	2.2M	JA	1/16W	[C2]
R1069	MT-GLAZE	330K	JA	1/16W	[D2]
R1076	MT-GLAZE	10K	JA	1/16W	[D2]
R1077	MT-GLAZE	10K	JA	1/16W	[D2]
R1078	MT-GLAZE	1.8K	JA	1/16W	[D3]
R1079	MT-GLAZE	8.2K	JA	1/16W	[D3]
R1080	MT-GLAZE	4.7K	JA	1/16W	[D3]
R1101	MT-GLAZE	2.2	JA	1/10W	[E2]
R1103	MT-GLAZE	0.000	ZA	1/16W	[E2]
R1105	MT-GLAZE	120	JA	1/16W	[E2]
R1106	MT-GLAZE	82K	JA	1/16W	[E2]
R1107	MT-GLAZE	560K	JA	1/16W	[E3]
R1118	MT-GLAZE	1.2K	JA	1/16W	[E3]
R1126	MT-GLAZE	0.000	ZA	1/16W	[E2]
R1127	MT-GLAZE	33K	JA	1/16W	[E2]
R1128	MT-GLAZE	22K	JA	1/16W	[E2]
R1129	MT-GLAZE	33K	JA	1/16W	[E2]
R1130	MT-GLAZE	22K	JA	1/16W	[E2]
R1301	MT-GLAZE	560	JA	1/16W	[F4]
R1304	MT-GLAZE	1.5K	JA	1/16W	[E5]
R1333	MT-GLAZE	330	JA	1/16W	[E4]
R1346	MT-GLAZE	680	JA	1/16W	[E5]
R1355	MT-GLAZE	10	JA	1/10W	[E3]
R1426	MT-GLAZE	15K	JA	1/16W	[E2]
R1428	MT-GLAZE	4.7K	JA	1/16W	[F5]
R1429	MT-GLAZE	1.5K	JA	1/16W	[F5]
R1433	MT-GLAZE	10K	JA	1/16W	[C3]
R1438	MT-GLAZE	0.000	ZA	1/16W	[D2]
R1439	MT-GLAZE	4.7K	JA	1/16W	[E2]
R1442	MT-GLAZE	5.6	JA	1/10W	[F5]
R1443	MT-GLAZE	1K	JA	1/16W	[C2]
R1444	MT-GLAZE	3.6K	JA	1/16W	[C2]
R1445	MT-GLAZE	3.3	JA	1/10W	[B2]
R1448	MT-GLAZE	1.5K	JA	1/16W	[F5]
R1464	MT-GLAZE	0.000	ZA	1/16W	[B3]
R1465	MT-GLAZE	10K	JA	1/16W	[B3]
R1466	MT-GLAZE	820	JA	1/16W	[B3]
R1467	MT-GLAZE	1K	JA	1/16W	[B3]
R1468	MT-FILM	12K	DU	1/16W	[B3]
R1469	MT-FILM	12K	DU	1/16W	[B3]
R1475	MT-GLAZE	2.4K	JA	1/16W	[E2]
R1476	MT-GLAZE	1.8K	JA	1/16W	[E2]
R1477	MT-GLAZE	2.2K	JA	1/16W	[E2]
R1608	MT-GLAZE	330	JA	1/16W	[G4]
R1613	MT-GLAZE	220	JA	1/16W	[F4]
R1617	MT-GLAZE	1.8K	JA	1/16W	[G3]
R1618	MT-GLAZE	910	JA	1/16W	[G3]
R1619	MT-GLAZE	1.5K	JA	1/16W	[G3]
R1620	MT-GLAZE	3.3K	JA	1/16W	[G3]
R1623	MT-GLAZE	2.2	JA	1/10W	[F3]
R1624	MT-GLAZE	0.000	ZA	1/16W	[G3]
R1626	MT-GLAZE	10K	JA	1/16W	[G3]
R1629	MT-GLAZE	10K	JA	1/16W	[F4]
R1630	MT-GLAZE	0.000	ZA	1/16W	[F4]
R1634	MT-GLAZE	0.000	ZA	1/16W	[F4]
R1906	MT-FILM	33K	DU	1/16W	[E4]
R1911	MT-FILM	39K	DD	1/16W	[D4]
R1913	MT-FILM	33K	DU	1/16W	[D4]
R1918	MT-FILM	33K	DU	1/16W	[D4]
R1919	MT-FILM	8.2K	DU	1/16W	[D4]
R1920	MT-FILM	33K	DU	1/16W	[D4]
R1921	MT-FILM	8.2K	DU	1/16W	[D4]
R1922	MT-GLAZE	27K	JA	1/16W	[D4]
R1923	MT-GLAZE	18K	JA	1/16W	[D4]
R1925	MT-GLAZE	10K	JA	1/16W	[D4]
R1926	MT-GLAZE	10K	JA	1/16W	[D4]
R1927	MT-FILM	8.2K	DU	1/16W	[D4]
R1928	MT-FILM	39K	DD	1/16W	[D4]
R1929	MT-FILM	470	DU	1/16W	[D4]
R1930	MT-FILM	470	DU	1/16W	[D4]
R1931	MT-FILM	39K	DD	1/16W	[E4]
R1932	MT-FILM	8.2K	DU	1/16W	[E4]
R1933	MT-FILM	15K	DU	1/16W	[E4]
R1934	MT-FILM	18K	DU	1/16W	[E4]
R1941	MT-GLAZE	3.3K	JA	1/16W	[B1]
R1944	MT-GLAZE	0.000	ZA	1/16W	[E4]
R1989	MT-GLAZE	0.000	ZA	1/16W	[D4]
R2601	MT-GLAZE	6.8K	JA	1/16W	[A3]
R2610	MT-GLAZE	33K	JA	1/16W	[B4]
R2611	MT-GLAZE	10K	JA	1/16W	[B4]
R2617	MT-FILM	18K	DU	1/16W	[B3]
R2618	MT-GLAZE	3.3M	JA	1/16W	[B3]
R2619	MT-FILM	7.5K	DU	1/16W	[A3]
R2620	MT-FILM	10K	DU	1/16W	[A3]
R2621	MT-GLAZE	5.6K	JA	1/16W	[B3]
R2622	MT-GLAZE	1.2K	JA	1/16W	[B3]
R2651	MT-GLAZE	1K	JA	1/16W	[A4]
R2652	MT-GLAZE	1K	JA	1/16W	[A4]
R2658	MT-GLAZE	100K	JA	1/16W	[A4]
R2660	MT-GLAZE	0.000	ZA	1/16W	[B4]
R2701	MT-GLAZE	22K	JA	1/16W	[A3]
R2702	MT-GLAZE	27K	JA	1/16W	[B3]
R2703	MT-GLAZE	180	JA	1/16W	[A3]
R2704	MT-GLAZE	1K	JA	1/16W	[B3]
R2705	MT-GLAZE	2.2K	JA	1/16W	[B3]
R2706	MT-GLAZE	4.7K	JA	1/16W	[B3]
R2707	MT-GLAZE	220	JA	1/16W	[B3]
R2802	MT-GLAZE	0.000	ZA	1/16W	[C3]
R2806	MT-GLAZE	0.000	ZA	1/16W	[B3]
R2821	MT-GLAZE	0.000	ZA	1/16W	[B4]
R2824	MT-GLAZE	6.8K	JA	1/16W	[B3]
R2933	MT-GLAZE	1.2K	JA	1/16W	[A2]
R2934	MT-GLAZE	1K	JA	1/16W	[A2]
R2940	MT-GLAZE	1K	JA	1/16W	[A2]
R2941	MT-GLAZE	8.2K	JA	1/16W	[A2]
R2942	MT-GLAZE	22K	JA	1/16W	[A2]
R2943	MT-GLAZE	0.000	ZA	1/16W	[A1]
R2931	MT-GLAZE	2.2K	JA	1/16W	[A2]
R2932	MT-GLAZE	2.2K	JA	1/16W	[A2]
R2944	MT-GLAZE	0.000K	ZA	1/16W	[A2]
R2945	MT-GLAZE	10K	JA	1/16W	[A2]
R3101	MT-GLAZE	10K	JA	1/16W	[F1]
R3209	MT-GLAZE	3.3K	JA	1/16W	[E1]
R3211	MT-GLAZE	10K	JA	1/16W	[E2]
R3213	MT-GLAZE	10K	JA	1/16W	[E1]
R3215	MT-GLAZE	3.3K	JA	1/16W	[D2]
R3216	MT-GLAZE	10K	JA	1/16W	[E2]
R3217	MT-GLAZE	10K	JA	1/16W	[E2]
R3301	MT-GLAZE	10K	JA	1/16W	[G4]
R3302	MT-GLAZE	10K	JA	1/16W	[G4]
R3303	MT-GLAZE	47K	JA	1/16W	[F5]
R3304	MT-GLAZE	56K	JA	1/16W	[F5]
R3305	MT-GLAZE	47K	JA	1/16W	[F5]
R3306	MT-GLAZE	47K	JA	1/16W	[F5]
R3309	MT-GLAZE	100K	JA	1/16W	[C4]
R3352	MT-GLAZE	5.6	JA	1/16W	[C2]
R3502	MT-GLAZE	1K	JA	1/16W	[G3]
R3503	MT-GLAZE	1K	JA	1/16W	[G3]
R3504	MT-GLAZE	100K	JA	1/16W	[F2]
R3506	MT-GLAZE	100K	JA	1/16W	[F2]
R3508	MT-GLAZE	100K	JA	1/16W	[E2]
R3511	MT-GLAZE	0.000	ZA	1/16W	[F2]
R3512	MT-GLAZE	1M	JA	1/16W	[F2]
R3513	MT-GLAZE	1K	JA	1/16W	[F2]
R3514	MT-GLAZE	3.3M	JA	1/16W	[F2]
R3515	MT-GLAZE	0.000	ZA	1/16W	[G3]
R3516	MT-GLAZE	1K	JA	1/16W	[F2]
R3517	MT-GLAZE	0.000	ZA	1/16W	[G3]
R3521	MT-FILM	100K	DD	1/16W	[E2]
R3522	MT-GLAZE	15K	JA	1/16W	[E3]
R3523	MT-FILM	100K	DD	1/16W	[F3]
R3524	MT-GLAZE	270K	JA	1/16W	[F3]
R3525	MT-GLAZE	10K	JA	1/16W	[F3]
R3526	MT-GLAZE	47K	JA	1/16W	[E3]
R3532	MT-GLAZE	100K	JA	1/16W	[G2]
R3551	MT-GLAZE	100K	JA	1/16W	[D2]
R3552	MT-GLAZE	100K	JA	1/16W	[D2]
R3553	MT-GLAZE	4.7K	JA	1/16W	[C2]
R3571	MT-GLAZE	1K	JA	1/16W	[F3]
R3572	MT-GLAZE	1K	JA	1/16W	[F3]
R3573	MT-GLAZE	47K	JA	1/16W	[F3]
R3575	MT-GLAZE	10K	JA	1/16W	[E3]
R3576	MT-GLAZE	10K	JA	1/16W	[E3]
R3581	MT-GLAZE	5.6	JA	1/16W	[G2]
R3587	MT-GLAZE	100K	JA	1/16W	[G1]
R3588	MT-GLAZE	1M	JA	1/16W	[G1]
R3589	MT-GLAZE	27K	JA	1/16W	[G1]
R3590	MT-GLAZE	10K	JA	1/16W	[G2]
R3591	MT-GLAZE	27K	JA	1/16W	[G2]
R3592	MT-GLAZE	10K	JA	1/16W	[G2]
R3593	MT-GLAZE	220K	JA	1/16W	[G2]
R3594	MT-GLAZE	22K	JA	1/16W	[G2]
R3595	MT-GLAZE	8.2K	JA	1/16W	[G2]
R3596	MT-GLAZE	47K	JA	1/16W	[G2]
R3601	MT-GLAZE	22K	JA	1/16W	[G4]
R3605	MT-GLAZE	39K	JA	1/16W	[G4]
R3608	MT-GLAZE	3.3K	JA	1/16W	[F4]
R3609	MT-GLAZE	1.8K	JA	1/16W	[G4]
R3753	MT-GLAZE	100	JA	1/16W	[G2]
R3805	MT-GLAZE	1	JA	1/10W	[C5]
R3806	MT-GLAZE	1	JA	1/10W	[C5]
R3809	MT-GLAZE	3.9K	JA	1/16W	[B5]
R3905	MT-GLAZE	560	JA	1/16W	[B5]
R3906	MT-FILM	10K	DU	1/16W	[B5]
R3907	MT-FILM	10K	DU	1/16W	[B5]
R3908	MT-GLAZE	100K	JA	1/16W	[G2]
RB321	R-NETWORK 10KX2 0.063W				[D1]
RB331	R-NETWORK 100KX2 0.063W				[C4]
RB357	R-NETWORK 100KX2 0.063W				[G2]
RB371	R-NETWORK 10KX2 0.063W				[G2]
TP101	TERMINAL,TESTPIN				[D2]
TP103	TERMINAL,TESTPIN				[D3]
TP191	TERMINAL,TESTPIN				[D4]
VR101	VR,SEMI,47K N				[D2]
VR102	VR,SEMI,47K N				[D2]
VR103	VR,SEMI,47K N				[D3]
VR104	VR,SEMI,47K N				[C3]
VR108	VR,SEMI,470 N				[C3]
VR111	VR,SEMI,4.7K N				[E3]
VR261	VR,SEMI,10K N				[B3]
VR351	VR,SEMI,100K N				[F3]

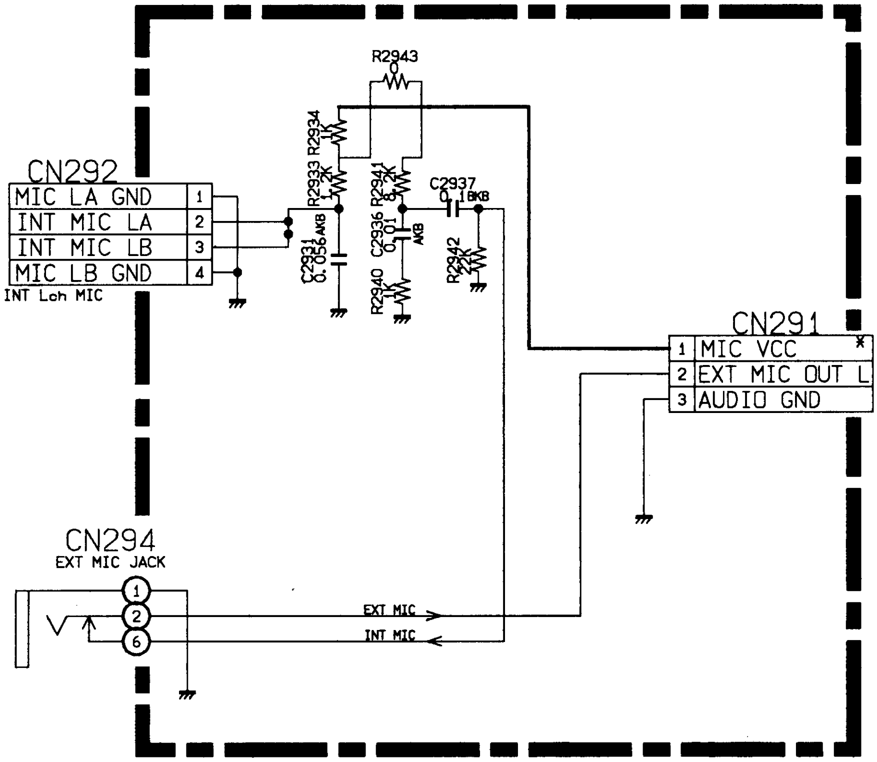
AD1 BOARD (SIDE B)【VM-EX280P/370P】



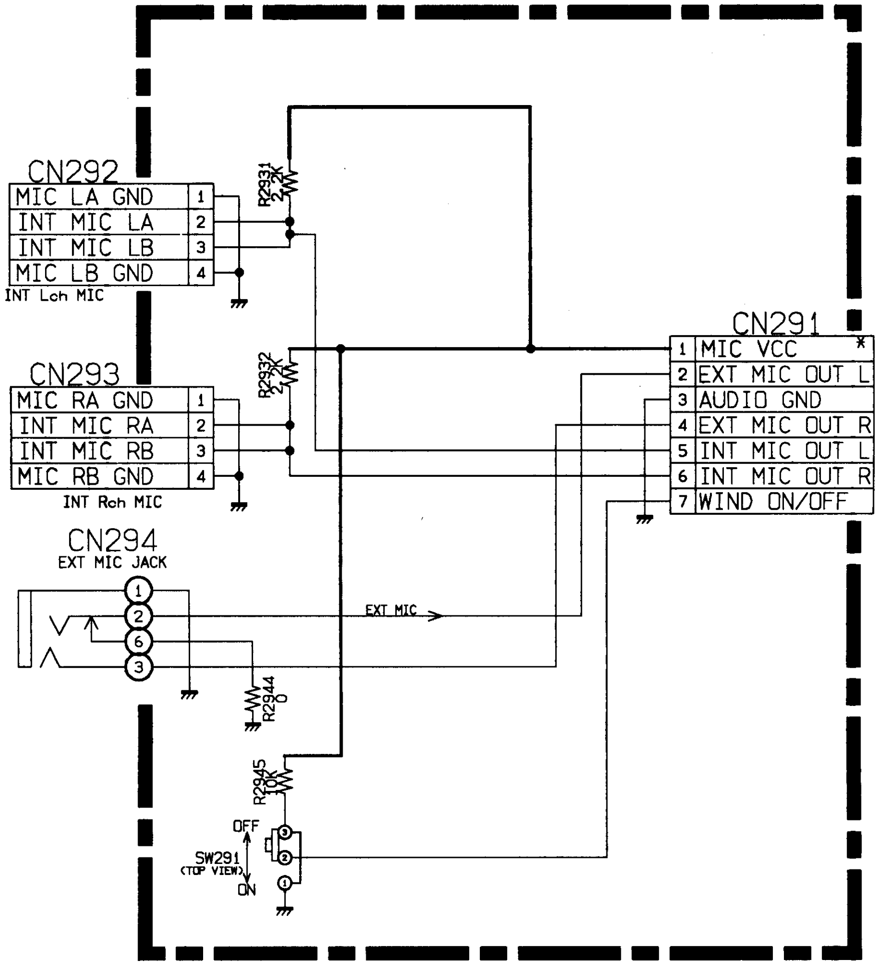
CP1 (AUDIO) CIRCUIT


AD5 AUDIO LINE IN (TO J1005 21Pin)
D101 SIG DET
AD1 AUDIO I/O
VP12 V/A 5V
AD4 AUDIO GND
AA2 PB RF AUDIO
DD9 AUDIO MUTE
D70 PB/REC
RF5 REC AUDIO
DD59 AUDIO CAM/LINE
AL1 FADE
D98 RF SW 1
CC8 FSC
NOTE a : REC MODE (b) : PB MODE
- : can not be measured
IC261
LA7454W
MAIN AUDIO PROCESS
TP261
TP262
Q2701 C4211
Q2702 C4211
CN261
1 MIC VCC
2 MIC AMP OUT
3 AUDIO GND

AD2 (MICROPHONE) CIRCUIT【VM-EX220P】


R2943
0
R2934
1K
R2933
1.2K
R2941
8.2K
C2937
0.1BKB
CN292
MIC LA GND 1
INT MIC LA 2
INT MIC LB 3
MIC LB GND 4
INT Lch MIC
C2931
0.056AKB
C2936
0.01
AKB
R2940
1K
R2942
22K
CN291
1 MIC VCC *
2 EXT MIC OUT L
3 AUDIO GND
CN294
EXT MIC JACK
1
2
6
EXT MIC
INT MIC

AD2 (MICROPHONE) CIRCUIT【VM-EX280P/370P】


CN292
MIC LA GND 1
INT MIC LA 2
INT MIC LB 3
MIC LB GND 4
INT Lch MIC
R2931
2.2K
CN293
MIC RA GND 1
INT MIC RA 2
INT MIC RB 3
MIC RB GND 4
INT Rch MIC
R2932
2.2K
CN291
1 MIC VCC *
2 EXT MIC OUT L
3 AUDIO GND
4 EXT MIC OUT R
5 INT MIC OUT L
6 INT MIC OUT R
7 WIND ON/OFF
CN294
EXT MIC JACK
1
2
6
3
EXT MIC
R2944
0
R2945
10K
OFF
SW291
(TOP VIEW)
ON
3
2
1

Mar./'95/3,620NS Printed in Japan

LOCATION	PARTS No.	DESCRIPTION
C9713	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C9714	403 157 3106	J 50V
OR	403 235 0300	J 50V
OR	403 229 5205	J 50V
C9715	403 155 1807	K 25V
OR	403 237 8502	K 25V
OR	403 176 0100	K 25V
C9716	403 163 9802	Z 25V
OR	403 279 0007	Z 25V
OR	403 176 2401	Z 25V
C9717	403 153 9300	J 50V
OR	403 235 0508	J 50V
OR	403 229 5601	J 50V
C9718	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9719	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9720	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9721	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9722	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9723	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9724	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9725	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
C9725	403 196 3105	Z 16V
C9726	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9727	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9728	403 114 5402	M 10V
OR	403 285 3900	M 10V
C9729	403 215 1402	J 50V
OR	403 235 4407	J 50V
C9730	403 145 9905	J 50V
OR	403 224 5507	J 50V
OR	403 229 4703	J 50V
C9731	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C9734	403 256 0600	M 25V
OR	403 277 5301	M 25V
C9751	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9752	403 153 9300	J 50V
OR	403 235 0508	J 50V
OR	403 229 5601	J 50V
C9753	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C9754	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C9755	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9756	403 155 1807	K 25V
OR	403 237 8502	K 25V
OR	403 176 0100	K 25V
C9757	403 113 3805	K 50V
OR	403 224 5705	K 50V
C9758	403 157 3601	J 50V
OR	403 235 0607	J 50V
OR	403 229 5700	J 50V
C9759	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C9760	403 155 2200	K 50V
OR	403 224 5903	K 50V
C9761	403 162 4709	M 16V
OR	403 268 6508	M 16V
C9763	403 162 4709	M 16V
OR	403 268 6508	M 16V
C9766	403 114 5600	M 6.3V
OR	403 285 3504	M 6.3V
C9767	403 093 7602	M 10V
C9768	403 175 4307	M 10V
OR	403 281 3300	M 10V
C9769	403 175 4505	M 6.3V
OR	403 279 0502	M 6.3V
(RESISTORS)		
R9701	401 105 2904	JA 1/16W
R9702	401 105 2904	JA 1/16W
R9703	401 105 7404	JA 1/16W
R9704	401 105 6001	JA 1/16W
R9705	401 105 3307	JA 1/16W
R9706	401 105 2904	JA 1/16W
R9707	401 105 2904	JA 1/16W
R9708	401 105 6001	JA 1/16W
R9709	401 105 6506	JA 1/16W
R9710	401 105 8005	JA 1/16W
R9713	401 177 2406	JA 1/16W
R9714	401 105 2102	JA 1/16W
R9715	401 105 4106	JA 1/16W
R9716	401 105 1501	JA 1/16W
R9721	401 105 2904	JA 1/16W
R9722	401 105 2904	JA 1/16W
R9723	401 105 2904	JA 1/16W
R9724	401 105 2904	JA 1/16W
R9725	401 105 2904	JA 1/16W
R9726	401 105 2904	JA 1/16W
R9727	401 105 3406	JA 1/16W
R9728	401 105 2904	JA 1/16W
R9729	401 105 6605	JA 1/16W
R9730	401 105 0504	JA 1/16W
R9731	401 105 2904	JA 1/16W
R9732	401 105 2904	JA 1/16W
R9733	401 105 2904	JA 1/16W
R9734	401 105 2904	JA 1/16W
R9735	401 105 6100	JA 1/16W
R9737	401 113 4402	JA 1/16W
R9738	401 105 3208	JA 1/16W
R9739	401 105 7909	ZA 1/16W
R9740	401 105 7909	ZA 1/16W
R9742	401 105 7909	ZA 1/16W
R9743	401 113 4402	JA 1/16W
R9751	401 105 6001	JA 1/16W
R9752	401 105 0603	JA 1/16W
R9753	401 105 7909	ZA 1/16W
R9754	401 105 0603	JA 1/16W
R9755	401 105 5400	JA 1/16W
R9756	401 105 2904	JA 1/16W
R9757	401 105 2904	JA 1/16W
R9758	401 105 0603	JA 1/16W
R9759	401 105 0603	JA 1/16W
R9760	401 105 0603	JA 1/16W
R9761	401 105 4205	JA 1/16W
R9762	401 105 0603	JA 1/16W
R9763	401 105 0504	JA 1/16W
R9764	401 105 7909	ZA 1/16W
R9768	401 105 1501	JA 1/16W